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LPC# 1970450001 Will County  
Lennon Wallpaper  
ILD# 984779759  
SF/HRS  
volume 1 of 2



# **CERCLA Expanded Site Inspection Report**



**Illinois Environmental  
Protection Agency**

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CERCLA EXPANDED SITE INSPECTION  
Volume 1

for

LENNON WALLPAPER  
I.D.# 984779759  
JOLIET, ILLINOIS

PREPARED BY:  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
BUREAU OF LAND  
DIVISION OF REMEDIATION MANAGEMENT  
FEDERAL SITE REMEDIATION SECTION  
SITE ASSESSMENT UNIT

AUGUST 2000

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## INTRODUCTION

The Illinois Environmental Protection Agency's (Illinois EPA) Site Assessment Unit was tasked by Region V of the United States Environmental Protection Agency (U.S. EPA) to conduct an Expanded Site Inspection of the Lennon Wallpaper site located in Joliet, Illinois. The Expanded Site Inspection is performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986, commonly known as SARA. The purpose of the Expanded Site Inspection is to gather information necessary to develop a CERCLA Hazard Ranking System (HRS) proposal. The information required may include characterizing sources and hazardous wastes, attributing contamination to sources at the site, identifying targets which may be at risk, collecting geologic and demographic information, and additional information which may not exist following previous CERCLA activities.

The Lennon Wallpaper site was placed on the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on January 4, 1991. The site was placed on CERCLIS due to soil and sediment contamination found during a 1989 site inspection by the Illinois EPA.

In 1991 the Illinois EPA conducted a Preliminary Assessment at the Lennon Wallpaper site. A Screening Site Inspection was performed by the Illinois EPA in 1992. Following the Screening Site Inspection, the site proceeded to the Expanded Site Inspection stage of the investigatory process. In June 1995, Illinois EPA's Site Assessment Unit conducted the field activity portion of the CERCLA Expanded Site Inspection. The investigation consisted of the

collection of fourteen soil samples from the former Lennon Wallpaper facility and adjacent properties.

## **1.0 SITE BACKGROUND**

### **1.1 SITE DESCRIPTION**

The Lennon Wallpaper site consists of approximately 10 acres located near 807 Fourth Avenue in Joliet, Illinois. Specifically, the site is located in the Southwest 1/4 of the Northwest 1/4 of Section 14, Township 35 North, Range 10 East of the Third Principal Meridian in Will County. Surrounding the site are residential properties to the west and north, industrial properties to the northeast and east, and an abandoned rock quarry located to the south. A large wetland area can be found within the north-east portion of the site. Two industrial companies occupy properties near the site. United DeSoto operates a soap manufacturing business from the property to the northeast of the Lennon Wallpaper site. The second business, Ivex Corporation, utilizes property to the east of the site and operates a paper mill.

For HRS evaluation purposes, the site refers to the source of hazardous substances and areas of hazardous substance contamination. Within this Expanded Site Inspection report, the area containing hazardous substances includes portions of the abandoned Lennon Wallpaper facility and a wetland northeast of the Lennon Wallpaper facility. Throughout the remainder of this report, the Lennon Wallpaper site will refer to this total area impacted by hazardous substances.

Throughout this report, specific structures and parcels of property located within the Lennon Wallpaper facility will refer to a facility map located in Appendix B. During its

operational years Lennon Wallpaper occupied approximately 12 acres and consisted of 15 buildings. The buildings were generally located along the western portion of the site located parcels 1 and 6. The Lennon Wallpaper facility also included settling lagoons, storage pits, and a wastewater treatment system within parcels 3, 4, and 5. These structures were utilized as part of the manufacturing process of wallpaper and have been dismantled and removed since Lennon Wallpaper vacated the facility.

The site is generally flat with a gentle slope toward the north, northeast, and south. Surface water from the site appears to drain toward one of these three locations. To the north a small pond appears to collect surface water drainage from a small northern portion of the site and consists of approximately one acre. The northeast portion of the site contains cattails and other wetland plant species. This wetland consists of approximately six acres and appears to receive surface water runoff from the northern portion of the site. Located to the south is an abandoned rock quarry approximately 11 acres in size which receives surface water from the southern portion of the site. The rock quarry was utilized as a swimming beach until the early 1990's. From each of these three areas, surface water appears to be contained and does not migrate from the site.

In the early 1990's a six foot high chain link fence was constructed around portions of the Lennon Wallpaper site. The fence was constructed in order to prevent human intrusion into potentially contaminated areas. For the specific parcels around which the fencing is located, refer to the map located in Appendix B. Parcel 4 is completely enclosed by a fence and contains a locked gate. Parcel 5 is surrounded along the north, west, and southern boundaries by the fence. The eastern boundary of the fence has been removed in order for the current occupant to

access parcel 5. Parcels 1, 2, 3, and 7 can be accessed during normal business hours for two active businesses utilizing those specific areas. Parcel 6 is located along the southern portion of the property and is also surrounded by fencing. The wetland located east of parcel 5 also contains fencing around its perimeter. Although the fence surrounds portions of the site, several areas of the fence were observed to be broken thus allowing intrusion.

The most recent site observations were made during field activities in April 2000. Prior to field-based screening activities, a walk through of site was conducted. There were several areas of unvegetated soil which corresponded to elevated levels of contamination found during previous site investigations. Areas throughout the site, including the wetland to the northeast, contained layers of stained soil from the surface to depth of approximately one foot. The staining consisted of red, green, yellow, and blue coloring which is believed to be related to colors used in the wallpaper manufacturing process. Field screening determined that high levels of inorganic contamination correlated to areas which contained stained soils. A more detailed description of the field-based screening results is discussed in Section 2.2 of this report.

## 1.2 SITE HISTORY

The Lennon Wallpaper Company began operation of a wallpaper manufacturing facility in 1919 by Eugene and Joseph Lennon. The Lennon Wallpaper facility encompassed approximately 12 acres which consisted of developed and undeveloped property. In 1954 the Lennon brothers sold the majority of the companies interest to Mr. William Stricklen. In 1966 Mr. Stricklen sold partial ownership of the company to Mr. Walter Mueller. The companies assets were subsequently sold to Thomas Industries in 1981. In 1988 North American



Decorative Products purchased Thomas Industries. Throughout the entire chain of ownership, the Lennon Wallpaper facility continued to manufacture wallpaper. In 1989 operations at the Lennon Wallpaper facility ceased.

Information gathered from previous investigations revealed that during the operational history of Lennon Wallpaper, wastes and wastewater were reportedly dumped in areas adjacent to the facility. During the 1970's Lennon Wallpaper began operation of their own wastewater treatment system. As part of the treatment system, storage pits or settling ponds were used to gather wastewater prior to treatment. There were several reports from the 1970's which indicated that wastewater overflowed during periods of heavy rainfall. The sludge pits were reportedly filled in 1979. After 1979 a new wastewater treatment system began operating and is believed to have continued until operations ceased in 1989.

Following the closure of Lennon Wallpaper in 1989, Illinois EPA collected soil and sediment samples from locations throughout the site. The analysis of the samples indicated that significant levels of contamination existed. The analytical data provided the information needed for the Illinois EPA to issue a 4(q) notice to all responsible parties involved with the Lennon Wallpaper site. In April 1990 the 4(q) notice was issued to all responsible parties involved with the Lennon Wallpaper site. The 4(q) directed the responsible parties to conduct a Remedial Investigation and Feasibility Study (RI/FS) in order to address the adverse environmental conditions at the site. It appears that no action has been taken by any responsible party to satisfy conditions set forth by the 4(q) notice.

After Lennon Wallpaper stopped operations in 1989, portions of the original facility were acquired by several different entities. Some of the buildings were purchased for use as

warehouse space. Other parcels of the Lennon Wallpaper facility were purchased and used for storage of landscape material, bricks, cinder blocks, and other types of material. Other parcels still remain vacant. No portion of the facility participates in wallpaper manufacturing.

In April 2000, Illinois EPA's Site Assessment Unit collected field-based site characterization data from the Lennon Wallpaper site. Information was gathered to determine current levels of inorganic soil contamination throughout the site. The site characterization samples were collected from locations depicted in the 1995 sample collection plus additional suspected areas of contamination throughout the site. The information gathered during this activity indicated that significant levels of inorganic contamination still exists within the soils of the Lennon Wallpaper site.

## **2.0 EXPANDED SITE INSPECTION ACTIVITIES**

### **2.1 SAMPLING ACTIVITIES**

#### **2.1.1 Soil Sampling**

Fourteen soil samples were collected from thirteen locations on May 7 and 8, 1995 by the Illinois EPA. These samples were collected from the abandoned Lennon Wallpaper facility and adjacent residential properties. The samples were collected from the zero to six inches below the surface with a stainless steel trowel and analyzed for Target Compound List (TCL) analytes. A complete list of TCL compounds can be found in Appendix C. Figure 3 illustrates the approximate locations of each soil sample. Table 1 provides detailed information about each sample and its respective location. Table 2 provides a summary of analytical data while Table 3 provides sample data which has detected levels exceeding three times background

concentrations.

The soil samples were compared to background sample X101. This sample was collected from the playground at Woodland School located west of the Lennon Wallpaper site. The sample location exhibited a similar soil type with others collected during Expanded Site Inspection field activities. It also appeared that this location was not influenced by past industrial activities which took place at Lennon Wallpaper.

Samples X102 - X105 were collected from areas in or near the Lennon Wallpaper facility. These samples targeted locations suspected of containing structures which may have impacted the surrounding soil. These samples, in addition to soil samples collected during the 1992 Screening Site Inspection, were used to evaluate the impact that the Lennon Wallpaper facility had upon the shallow soils.

Samples X501 - X509 were collected from residential properties west and north of the Lennon Wallpaper facility. These sample locations were selected to determine if neighboring residential properties may have been impacted by past industrial activities at Lennon Wallpaper.

#### 2.1.2 X-Ray Fluorescence Screening

On April 12 - 13, 2000 Illinois EPA personnel used an X-Ray Fluorescence (XRF) Spectrum Analyzer to screen soil from 61 locations throughout the site. This field-based site characterization technique was used to determine levels and extent of inorganic contamination within the soils of the site. Sample readings were taken from the surface up to 2.5 feet below the surface. It should be noted that XRF technology provides quantitative values for selected inorganic constituents but these values were not used in evaluating the site for HRS purposes.

Figure 4 illustrates locations for each XRF sample within the Lennon Wallpaper site. Table 4 provides analytical values for lead, arsenic, zinc, copper, iron, manganese, and chromium for each XRF sample.

## 2.2 ANALYTICAL RESULTS

Following sample collection, all samples were submitted to the laboratory for analysis of TCL constituents following chain-of-custody procedures and protocols outlined in the Illinois EPA workplan. Copies of the chain-of-custody forms are provided in Appendix F (volume 2 of the Expanded Site Inspection Report). A copy of the TCL is located in Appendix C. Organic analysis was conducted by Illinois EPA's Division of Laboratories located in Springfield, Illinois. Inorganic sample analysis was conducted by Illinois EPA's Division of Laboratories located in Champaign, Illinois. A quality assurance review of the sample analysis was performed by Illinois EPA's Division of Laboratories. Tables 2 provides a summary of all samples collected during the Expanded Site Inspection. The criteria used to determine what may be considered an observed release was based on samples at least three times background concentrations and are illustrated in Table 3.

The analytical results of soil samples X102 - X104 indicate significant levels of inorganic compounds; barium, cadmium, chromium, copper, lead, nickel, and zinc. The results also indicated varying levels of pesticide contamination within these samples. Sample X104, in addition to other types of contamination, detected significant levels of Polycyclic Aromatic Hydrocarbons (PAH's). The type of contamination is consistent with previous sample data collected from the Lennon Wallpaper facility.

The analysis of samples X501 - X509 revealed that varying low levels of semi-volatile, pesticide, and inorganic contamination exist within these residential properties. Although low levels of contamination exist, they do not appear to be directly attributable to the Lennon Wallpaper site.

Field-based site characterization data was collected in April 2000 using an XRF Spectrum Analyzer. The results indicated that lead, zinc, copper, and chromium were present at concentrations significantly above background at most locations throughout the site. The XRF data indicated levels of lead, copper, and chromium exceeded U.S. EPA Removal Action Level criteria at many locations. The highest lead value was detected at 59,955 ppm., the highest zinc value at 11,296 ppm., the highest copper value at 86,579 ppm., and the highest value for chromium was 15,795 ppm. A complete listing of XRF screening data can be found in Table 4. Although quantitative values are provided, data from this screening activity was not used to evaluate this site for HRS purposes.

### **3.0 SITE SOURCES**

This section includes descriptions of the various hazardous waste sources which have been identified at the Lennon Wallpaper site during the CERCLA Expanded Site Inspection. Section 1.1 of the revised Hazard Ranking System defines a "source" as: "Any area where a hazardous substance has been stored, disposed or placed, plus those soils that have become contaminated from migration of a hazardous substance." This does not include surface water or sediments below surface water that has become contaminated.

### 3.1 CONTAMINATED SOIL

The area of contaminated soils has been identified as a portion of the Lennon Wallpaper facility and adjacent properties. Analysis of these samples detected levels of contamination at least three times background concentrations and are attributable to the manufacturing processes once used at Lennon Wallpaper. The process of wallpaper manufacturing utilized metal-based pigments and dyes which provided color to the final product. Although other types of contamination were detected throughout the area of contamination soil, the inorganic constituents were primarily focused upon during this evaluation.

Based on current information, the extent of this source is delineated by seven samples collected during the Screening Site Inspection and Expanded Site Inspection. Due to the fact that there are duplicate sample numbers in the two CERCLA field activities, those samples collected during the Expanded Site Inspection will be designated with an "ESI" notation. The extent of soil contamination was determined by using sample points X103, X109, X112, X105(ESI), X104 (ESI), X113, and X103 (ESI). The samples were collected within the upper two feet of soil and indicated elevated contamination attributable to past activities at Lennon Wallpaper. Using the location of these samples and a scaled map, an approximate area of 10 acres was delineated. Figure 5 illustrates the area of contaminated soil using these seven data points.

A large portion of this source is void of vegetation and would not prevent surface contamination from migrating into nearby ponds and wetlands. Most of the source area appears to be surrounded by a secured fence but there are signs of intrusion due to holes within the fence. The source area is not located within a flood plain.

During April 2000 field screening activities, Illinois EPA observed discolored soil within the source area. Upon further investigation, these discolored soils were analyzed using the XRF Spectrum Analyzer. The XRF indicated that levels of lead, copper, and chromium exceeded USEPA Removal Action Levels. Although laboratory samples were not collected, the XRF data indicated that additional investigation is warranted within the area of contaminated soil.

#### **4.0 MIGRATION PATHWAYS**

The CERCLA Hazard Ranking System identifies three migration pathways and one exposure pathway by which hazardous substances may pose a threat to human health and the environment. Consequently, sites are evaluated on their known or potential impact to these four pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure, and air migration.

##### **4.1 GROUNDWATER**

The geologic composition of the Lennon Wallpaper area is unconsolidated glacial and recent alluvial deposits overlying Silurian-age dolomite bedrock. The unconsolidated deposits consist of glacial till, sand, and gravel deposits along with recent silt and clay alluvial deposits. Within these deposits, a shallow water yielding aquifer can be found. Typically in the area, the alluvial deposits continue until reaching bedrock which can range from zero to 100 feet below the surface. Site specifically, the bedrock is estimated to be approximately 20 feet below the surface.

According to Illinois EPA file information, the City of Joliet obtains water from 14 wells.

Five wells are screened in a shallow sand and gravel aquifer and are located over four miles to the northwest and west of the site. One well is located approximately 2,000 feet northeast of the site and is finished to a depth of 1,608 feet below the surface. A review of Illinois State Water Survey records and information from the City of Joliet indicate there are approximately 3,236 domestic wells located within four miles of the site. It is within the shallow aquifer that most of the domestic wells obtain their groundwater with the closest slightly over 1/4 mile southeast of the site.

No ground water samples were collected during the Expanded Site Inspection.

#### 4.2 SURFACE WATER

As stated earlier within this report, the site is generally flat with a slight slope to the north, northeast, and south. Surface water flow from the site appears to migrate in one of these three directions. Excess surface water flow from the site appears to collect within a rock quarry to the south, a small pond to the north, or wetlands to the northeast. Surface water does not appear to migrate from these areas into any adjacent surface water body.

There are two ponds located adjacent to the Lennon Wallpaper site, one to the north and one to the south. During reconnaissance activities in April 2000, Illinois EPA personnel utilized field-base site characterization techniques to determine if inorganic contamination was present near these two ponds. There is no evidence which suggests that the two ponds contain any inorganic contamination from the Lennon Wallpaper site.

There is a wetland encompassing approximately six acres to the northeast of the abandoned Lennon Wallpaper facility. The wetland consists of a low lying area containing



cattails and other wetland plant species. Since this wetland area is not part of a discernable surface water route nor is it contiguous with one, it can not be evaluated under the surface water pathway for HRS purposes. It will be evaluated as a terrestrial sensitive environment and discussed within Section 4.3 (Soil Exposure Pathway) of this report.

#### 4.3 SOIL EXPOSURE

Wallpaper manufacturing activities no longer occur on the Lennon Wallpaper site. Although manufacturing activities ceased in 1989, waste material still exists on the site. Visual observations made in April 2000 indicate soils within the site are stained with pigments and dyes once used in the wallpaper manufacturing process. There are several fences which limit access to most of the site, however there are still signs of intrusion to known areas of contaminated soil.

Using U.S. Geological Survey topographical maps and U.S. Census Data, an estimated 9,735 people reside within 1 mile of the site. The nearest resident is located less than 200 feet from the site. Woodlawn School is located approximately 300 feet west of the site. Woodlawn School contains approximately 200 students.

Soil samples were collected from thirteen locations during Expanded Site Inspection field activities. Samples X102 - X105 were collected from areas within or near the abandoned Lennon Wallpaper facility. Levels of semi-volatile and inorganic contamination were detected at concentrations significantly above background conditions. When the data from the Expanded Site Inspection is linked with data generated from the Screening Site Inspection, an area of 10 acres of contaminated soil can be delineated for the site. A complete description of the contaminated soil source is provided in Section 3.1.

In April 2000, field-based site characterization technology was used to gather additional soil screening data from the Lennon Wallpaper site. The evaluation of the data concluded that levels of lead, copper, and chromium exceed U.S. EPA Removal Action Level criteria.

Soil samples were collected from eight residential locations during the Expanded Site Inspection. Various low levels of contamination were detected in four properties. The nature and distribution of the contamination did not indicate complete attribution to the Lennon Wallpaper site.

Nearby population within 1-mile of the site

| Distance (mi) | Population  |
|---------------|-------------|
| 0 - 1/4       | 477         |
| 1/4 - 1/2     | 2530        |
| 1/2 - 1       | 2728        |
| <b>Total</b>  | <b>9735</b> |

#### 4.4 AIR ROUTE

No formal air samples were collected during the 1995 Expanded Site Inspection. Although no air samples were collected, analysis of the shallow soils throughout the site indicated elevated levels of semi-volatile and inorganic contamination. There is a potential for wind-blown particulates to be carried from the property since contamination has been found in the shallow soil and some of these areas are unvegetated. Information from the Agency for Toxic Substances and Disease Registry indicates dust containing lead and chromium can have adverse health effects if inhaled. Both lead and chromium have been detected at elevated levels

within shallow soils on the site. An estimated 106,026 people live within a 4-mile radius of the site. An elementary school is located approximately 300 feet west of the site.

Individuals potentially exposed to air-borne contaminants

| Distance (mi) | Population     |
|---------------|----------------|
| 0 - 1/4       | 477            |
| 0 - 1/2       | 2530           |
| 1/2 - 1       | 6728           |
| 1 - 2         | 34,043         |
| 2 - 3         | 32,865         |
| 3 - 4         | 29,383         |
| <b>Total</b>  | <b>106,026</b> |

## 5.0 REFERENCES

Bureau of the Census: 1990 U.S. Census of Population and Housing-Summary Population and Housing Characteristics: Illinois, August 1991

Illinois Department of Transportation aerial photographs, Bureau of Location and Environment, Aerial Survey Section

Illinois Environmental Protection Agency, Bureau of Land: file for Lennon Wallpaper, LPC# 197 045 0001

Rainfall Frequency Atlas of the United States, Technical Paper Number 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963

U.S. Department of Health and Human Services, Toxicological Profile for Lead, February 1992

Agency for Toxic Substance and Disease Registry, Tox FAQ's for Lead and Chromium, ATSDR web site; <http://www.atsdr.cdc.gov/toxfaq.html>

## **FIGURES AND TABLES**

**TABLE 1**  
**SOIL SAMPLE DESCRIPTIONS**

| SAMPLE    | DEPTH           | APPEARANCE  | LOCATION   |
|-----------|-----------------|---|--|
| X101      | 1 - 12 inches   | dark brown silty loam with some rock                                | Collected from a play ground area at Woodland School located at the corner of Rowell Avenue and Third Avenue                                   |
| X102      | 0 - 12 inches   | Not available   | Collected northwest of the waste water treatment plant   |
| X103      | 1 - 6 inches    | light-medium brown sandy, silty mix with a green/orange substance   | Collected northwest of the entrance gate to the fenced portion of the northwest portion of the facility, north of the large warehouse building |
| X104      | 1 - 5 inches    | medium to dark brown loam with sand, silt, and gravel (also debris) | Collected east of the Lennon property and north of Michigan Beach Swimming Club  |
| X105      | 0 5 - 5 inches  | medium brown clay with pebbles                                      | Collected east of the Lennon property and north of Michigan Beach Swimming Club and southeast of Sample X104                                   |
| X501      | 1 - 4 inches    | dark brown loam   | Collected from a residential yard located at 354 Rowell Avenue, west of the Lennon facility  |
| X502      | 1 - 4 inches    | dark brown loam   | Collected from a residential yard located at 304 Rowell Avenue west of the Lennon facility   |
| X503      | 0 - 4 inches    | dark brown loam   | Collected from a residential yard located at 234 Rowell Avenue, west of the Lennon facility  |
| X504      | 1 - 5 inches    | dark brown loam   | Collected from a residential yard located at 226 Rowell Avenue, west of the Lennon facility  |
| X505      | 0 5 - 12 inches | dark brown loam   | Collected from a residential yard located at 216 Rowell Avenue, northwest of the Lennon facility   |
| X506      | 1 - 12 inches   | dark brown loam   | Collected from a residential yard located at 208 Rowell Avenue, northwest of the Lennon facility   |
| X507/X508 | 0 - 4 inches    | dark brown clayey loam  | Collected from an apartment building courtyard located at 806-816 Second Avenue, north of the Lennon facility                                  |
| X509      | 1 - 12 inches   | dark brown loam   | Collected from a residential yard located at 820 Second Street, north of the Lennon facility   |

TABLE 2  
ANALYTICAL SAMPLE SUMMARY

| IEPA SAMPLE ID<br>DATE COLLECTED<br>SAMPLE DEPTH<br>DESCRIPTION | X101<br>6-8-95 | X102<br>6-7-95 | X103<br>6-7-95<br>1 - 6 in | X104<br>6-7-95<br>1 - 5 in | X105<br>6-7-95<br>0.5 - 5 in | X501<br>6-7-95<br>1 - 4 in | X502<br>6-7-95<br>1 - 4 in | X503<br>6-7-95<br>0 - 4 in | X504<br>6-7-95<br>1 - 5 in | X505<br>6-8-95 | X506<br>5-8-95 | X507<br>6-8-95<br>0 - 6 in | X508<br>6-8-95<br>dup of X507 | X509<br>6-8-95 |
|---|----------------|----------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------|----------------|----------------------------|-------------------------------|----------------|
| <b>VOLATILES (ppb)</b>  |                |                |                            |                            |                              |                            |                            |                            |                            |                |                |                            |                               |                |
| Methylene Chloride*   | 12 U           | ---            | 26 J                       | 20                         | ---                          | 10 J                       | 9 J                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| 1,1,1 Trichloroethane*  | 15             | 9 J            | 18 J                       | 14 J                       | 11 J                         | 21                         | 16 J                       | 23 J                       | 6 J                        | 13 J           | 12 J           | 4 J                        | 5 J                           | 16             |
| Xylene (total)  | 3 J            | ---            | ---                        | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| <b>SEMI VOLATILES (ppb)</b>                                     |                |                |                            |                            |                              |                            |                            |                            |                            |                |                |                            |                               |                |
| 1,4-Dichlorobenzene   | 400 U          | 750            | 3200                       | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Naphthalene   | 400 U          | ---            | ---                        | 100 J                      | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| 2-Methylnaphthalene   | 400 U          | ---            | ---                        | 85 J                       | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| 2-Nitroaniline  | 960 U          | 99 J           | ---                        | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Acenaphthylene  | 400 U          | ---            | ---                        | 78 J                       | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Dibenzofuran  | 400 U          | ---            | ---                        | 170 J                      | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Fluorene  | 400 U          | ---            | ---                        | 440                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Perchlorophenol   | 980 U          | 980 J          | 6300 J                     | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Phenanthrene  | 400 U          | ---            | ---                        | 3700 E                     | 190 J                        | 570                        | 240 J                      | 470                        | 400                        | 200 J          | 100 J          | ---                        | ---                           | 180 J          |
| Carbazole   | 400 UJ         | ---            | ---                        | 690                        | ---                          | 100 J                      | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Fluoranthene  | 130 J          | ---            | ---                        | 4200 E                     | 280 J                        | 890                        | 440                        | 780                        | 620                        | 740            | 190 J          | ---                        | ---                           | 250 J          |
| Pyrene  | 120 J          | ---            | ---                        | 3300 E                     | 220 J                        | 740                        | 350 J                      | 610                        | 580                        | 540            | 180 J          | ---                        | ---                           | 190 J          |
| Benzo(a)Anthracene  | 400 U          | ---            | ---                        | 2700                       | 220 J                        | 480                        | 220 J                      | 380 J                      | 380 J                      | 620            | ---            | ---                        | ---                           | 140 J          |
| Chrysene  | 400 U          | ---            | ---                        | 2300                       | 180 J                        | 480                        | 230 J                      | 400                        | 320 J                      | 480            | 120 J          | ---                        | ---                           | 140 J          |
| bis(2-Ethylhexyl)Phthalate                                      | 1000           | ---            | ---                        | ---                        | 100 J                        | 270 J                      | 270 J                      | 520                        | 150 J                      | ---            | 290 J          | 84 J                       | ---                           | 210 J          |
| Benzo(b)Fluoranthene  | 400 UJ         | ---            | ---                        | 2500                       | 530 J                        | 1000                       | 530                        | 900                        | 750                        | 1200 J         | ---            | ---                        | ---                           | ---            |
| Benzo(k)Fluoranthene  | 400 U          | ---            | ---                        | 1900 J                     | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Benzo(a)Pyrene  | 400 U          | ---            | ---                        | 2100                       | ---                          | 390 J                      | 190 J                      | 320 J                      | 300 J                      | 410            | ---            | ---                        | ---                           | ---            |
| Ideno(1,2,3-cd)Pyrene   | 400 U          | ---            | ---                        | 1200 J                     | ---                          | 200 J                      | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Benzo(g,h,i)Perylene  | 400 U          | ---            | ---                        | 690 J                      | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| <b>PESTICIDES (ppb)</b>   |                |                |                            |                            |                              |                            |                            |                            |                            |                |                |                            |                               |                |
| alpha-BHC   | 2 U            | ---            | ---                        | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | 0.34 J         |
| beta-BHC  | 0.14 JP        | ---            | ---                        | 14 JP                      | ---                          | ---                        | ---                        | ---                        | 2.5 P                      | ---            | ---            | ---                        | ---                           | ---            |
| delta-BHC   | 2 U            | 19 P           | 62                         | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| gamma-BHC (Lindane)   | 2 U            | ---            | ---                        | 1.7 JP                     | ---                          | ---                        | ---                        | ---                        | ---                        | 0.24 JP        | ---            | ---                        | ---                           | ---            |
| Heptachlor  | 2 U            | ---            | ---                        | 0.25 JP                    | ---                          | 0.42 JP                    | ---                        | 0.2 JP                     | ---                        | 0.17 JP        | ---            | ---                        | ---                           | 0.71 JP        |
| Aldrin  | 2 U            | ---            | ---                        | 4.9                        | 1.3 JP                       | ---                        | ---                        | ---                        | 1.2 J                      | 0.73 JP        | ---            | ---                        | ---                           | ---            |
| Heptachlor epoxide  | 0.79 JP        | ---            | ---                        | 2.2                        | 2.7 P                        | 1.3 JP                     | 1.9 J                      | 1.4 JP                     | 1 JP                       | ---            | ---            | ---                        | ---                           | 72 P           |
| Dieldrin  | 0.81 JP        | ---            | ---                        | ---                        | 0.45 JP                      | 1.1 JP                     | 1.6 JP                     | 8 P                        | 1.1 JP                     | 0.51 JP        | 0.48 JP        | 0.34 JP                    | ---                           | 13 P           |
| 4,4-DDE   | 12             | 42 P           | 12 P                       | ---                        | ---                          | 13                         | ---                        | ---                        | 15                         | 18             | ---            | ---                        | ---                           | 89             |
| Endrin  | 3.9 U          | ---            | 19 P                       | 24                         | ---                          | ---                        | 11                         | ---                        | 9                          | 2.3 JP         | 0.71 JP        | 0.98 JP                    | ---                           | ---            |
| Endosulfan II   | 2.2 J          | ---            | ---                        | ---                        | ---                          | ---                        | 3.8 JP                     | ---                        | ---                        | ---            | 0.36 JP        | 0.5 J                      | ---                           | ---            |
| 4,4-DDD   | 1.7 JP         | ---            | ---                        | 2.7 JP                     | 0.92 JP                      | 4 JP                       | 1.6 JP                     | 3.7 JP                     | 1.6 JP                     | 2.7 JP         | 2.6 JP         | 0.67 J                     | 0.65 J                        | 10             |
| Endosulfan sulfate  | 2.2 JP         | ---            | ---                        | ---                        | 1.3 JP                       | ---                        | 1.5 JP                     | ---                        | 1.5 JP                     | 2.5 JP         | 3 J            | ---                        | ---                           | 4.4 P          |
| 4,4-DDT   | 7.9            | 240            | 32 P                       | ---                        | 0.70 JP                      | 11 P                       | 6.3 P                      | 7.2 P                      | 5 P                        | 30             | 19 P           | 0.41 JP                    | 0.51 JP                       | 59             |
| Methoxychlor  | 20 U           | 4.4 JP         | 36                         | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | 2.2 JP         | ---            | 1.5 JP                     | ---                           | ---            |
| Endrin ketone   | 3.9 U          | 3.6 JP         | ---                        | ---                        | 1.4 JP                       | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| alpha-Chlordane   | 0.52 JP        | 28 P           | ---                        | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | 0.51 JP        | ---                        | ---                           | 140            |
| gamma-Chlordane   | 2 U            | ---            | 3.2 P                      | 3.4                        | 1 J                          | 2.2 JP                     | 0.73 JP                    | 1.7 J                      | 1.2 JP                     | 1.4 JP         | ---            | ---                        | ---                           | 39 P           |
| Toxaphene   | 3.9 U          | ---            | ---                        | ---                        | ---                          | 77 JP                      | ---                        | 61 JP                      | 50 JP                      | ---            | ---            | ---                        | ---                           | ---            |
| Arochlor 1254   | 17 JP          | ---            | ---                        | ---                        | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Arochlor 1260   | 24 JP          | ---            | ---                        | 87 P                       | 22 JP                        | 100                        | 37 JP                      | 83                         | ---                        | 37 JP          | 50             | 5.6 JP                     | 9.9 JP                        | 47 P           |
| <b>INORGANICS (ppm)</b>   |                |                |                            |                            |                              |                            |                            |                            |                            |                |                |                            |                               |                |
| Aluminum  | 10500          | 8430           | 8900                       | 11200                      | 7690                         | 7730                       | 9350                       | 10400                      | 12300                      | 10900          | 12900          | 15200                      | 16600                         | 12100          |
| Antimony  | 8.3 U          | 41.3           | 48.3                       | 11.6 B                     | ---                          | ---                        | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Arsenic   | 7.8            | 6.6            | 13.1                       | 15.6                       | 14.8                         | 26.9                       | 12.9                       | 11.4                       | 13.1                       | 17             | 12.6           | 6.9                        | 7.9                           | 67.5           |
| Barkon  | 93.8           | 11600          | 13900                      | 222                        | 88.7                         | 221                        | 136                        | 135                        | 150                        | 220            | 114            | 162                        | 177                           | 133            |
| Beryllium   | 0.85 B         | 0.69 B         | 0.49 B                     | 2                          | 0.95                         | 2                          | 1.2 B                      | 1.2                        | 1.2                        | 1.4            | 1.1 B          | 0.81 B                     | 0.85 B                        | 0.98 B         |
| Cadmium   | 1.2 U          | 120            | 23.5                       | 3.2                        | ---                          | 3.3                        | 2                          | 3.7                        | 1.6                        | 3.7            | 1.5            | ---                        | ---                           | ---            |
| Calcium   | 30900          | 4550           | 21900                      | 81300                      | 64400                        | 71100                      | 56900                      | 36100                      | 18500                      | 35500          | 15000          | 2980                       | 3130                          | 22600          |
| Chromium  | 15.1           | 542            | 901                        | 79.3                       | 15                           | 18.7                       | 16.1                       | 36.9                       | 18.9                       | 18.6           | 18.8           | 18                         | 19.4                          | 18.4           |
| Cobalt  | 8.5 B          | 6.8            | 6.4 B                      | 12                         | 10.1                         | 11.1 B                     | 9.3 B                      | 11.4                       | 11                         | 10.2           | 9.6 B          | 11.1 B                     | 14.7                          | 11.8 B         |
| Copper  | 23.4           | 1620           | 13000                      | 168                        | 33.5                         | 71.8                       | 46.2                       | 47.7                       | 39.1                       | 48.2           | 31.8           | 15.3                       | 15.2                          | 34.7           |
| Iron  | 19500          | 21500          | 29700                      | 54700                      | 25500                        | 25400                      | 26800                      | 28200                      | 29000                      | 28200          | 27100          | 20300                      | 21400                         | 23000          |
| Lead  | 97.6           | 2240           | 3650                       | 1540                       | 38.9                         | 453                        | 310                        | 203                        | 270                        | 484            | 120            | 28.2                       | 34.7                          | 106            |
| Magnesium   | 17400          | 2710           | 11900                      | 36300                      | 35600                        | 37300                      | 29600                      | 19300                      | 8220                       | 16300          | 8110           | 3000                       | 3210                          | 12700          |
| Manganese   | 803            | 590            | 817                        | 1820                       | 580                          | 485                        | 921                        | 925                        | 989                        | 1040           | 1160           | 1010                       | 1290                          | 1160           |
| Mercury   | 0.08 B         | 0.13           | 0.14 B                     | 0.21                       | 0.06                         | 0.223                      | 0.19                       | 0.62                       | 0.18                       | 0.23           | 0.14           | 0.03 B                     | 0.04 B                        | 0.14           |
| Nickel  | 13.5           | 18.1           | 10.3                       | 89.2                       | 25.9                         | 22.7                       | 21.7                       | 19.5                       | 21.4                       | 21.7           | 18.7           | 14.5                       | 16.6                          | 19.3           |
| Potassium   | 1910           | ---            | 477 B                      | 1230                       | 1400                         | 1170 B                     | 1620                       | 1590                       | 2140                       | 1760           | 1890           | 1530                       | 1850                          | 1830           |
| Selenium  | 1.2 U          | ---            | ---                        | 0.24 B                     | ---                          | 0.68 B                     | ---                        | ---                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Sodium  | 73.9 U         | 188 B          | 435 B                      | 730 B                      | 235 B                        | 220 B                      | 147 B                      | 141 B                      | 111 B                      | 188 B          | 127 B          | ---                        | ---                           | 88.8 B         |
| Thallium  | 0.29 B         | ---            | ---                        | 0.28 B                     | 0.46 B                       | 0.71 B                     | 0.42 B                     | 0.33 B                     | 0.33 B                     | 0.43 B         | 0.37 B         | 0.23 B                     | 0.27 B                        | 0.32 B         |
| Vanadium  | 25.1           | 30.2           | 32.3                       | 32.3                       | 18.8                         | 23.5                       | 25.8                       | 28                         | 30.5                       | 29.8           | 34.4           | 33.7                       | 38.8                          | 29.9           |
| Cyanide   | 0.61 U         | 1.2            | 3.5                        | 1.1                        | ---                          | ---                        | ---                        | 0.6                        | ---                        | ---            | ---            | ---                        | ---                           | ---            |
| Zinc  | 147            | 6110           | 2590                       | 1080                       | 110                          | 609                        | 274                        | 245                        | 305                        | 735            | 162            | 70.2                       | 72                            | 139            |

## Data Qualifiers

U indicates the compound was not detected

J indicates an estimated value

B indicates the analyte was detected in the associated blank as well as in the sample

E indicates compounds whose concentrations exceed the calibration range of the instrument

P indicates a pesticide target analyte when there is 25% difference of the directed concentrations between the two GC columns

TABLE 3  
KEY SAMPLE SUMMARY

| IEPA SAMPLE ID              | X101    | X102   | X103     | X104     | X105       | X501     | X502     | X503     | X504     | X505   | X506   | X507     | X508        | X509   |
|-----------------------------|---------|--------|----------|----------|------------|----------|----------|----------|----------|--------|--------|----------|-------------|--------|
| DATE COLLECTED              | 6-8-95  | 6-7-95 | 6-7-95   | 6-7-95   | 6-7-95     | 6-7-95   | 6-7-95   | 6-7-95   | 6-7-95   | 6-8-95 | 6-8-95 | 6-8-95   | 6-8-95      | 6-8-95 |
| SAMPLE DEPTH                |         |        | 1 - 6 in | 1 - 5 in | 0.5 - 5 in | 1 - 4 in | 1 - 4 in | 0 - 4 in | 1 - 5 in |        |        | 0 - 6 in |             |        |
| DESCRIPTION                 |         |        |          |          |            |          |          |          |          |        |        |          | dup of X507 |        |
| <b>VOLATILES (ppb)</b>      |         |        |          |          |            |          |          |          |          |        |        |          |             |        |
| Methylene Chloride          | 12 U    | ---    | 26 U     | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| <b>SEMI-VOLATILES (ppb)</b> |         |        |          |          |            |          |          |          |          |        |        |          |             |        |
| 1,4-Dichlorobenzene         | 400 U   | 750    | 3200     | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Fluorene                    | 400 U   | ---    | ---      | 440      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Pentachlorophenol           | 960 U   | 980 J  | 6300 J   | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Phenanthrene                | 400 U   | ---    | ---      | 3700 E   | ---        | 570      | ---      | 470      | ---      | ---    | ---    | ---      | ---         | ---    |
| Carbazole                   | 400 UJ  | ---    | ---      | 690      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Fluoranthene                | 130 J   | ---    | ---      | 4200 E   | ---        | 890      | 440      | 780      | 620      | 740    | ---    | ---      | ---         | ---    |
| Pyrene                      | 120 J   | ---    | ---      | 3300 E   | ---        | 740      | ---      | 610      | 580      | 540    | ---    | ---      | ---         | ---    |
| Benzo(a)Anthracene          | 400 U   | ---    | ---      | 2700     | ---        | 460      | ---      | ---      | ---      | 620    | ---    | ---      | ---         | ---    |
| Chrysene                    | 400 U   | ---    | ---      | 2300     | ---        | 480      | ---      | 400      | ---      | 480    | ---    | ---      | ---         | ---    |
| bis(2-Ethylhexyl)Phthalate  | 1000    | ---    | ---      | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Benzo(b)Fluoranthene        | 400 UJ  | ---    | ---      | 2500     | 530 J      | 1000     | 530      | 900      | 750      | 1200 J | ---    | ---      | ---         | ---    |
| Benzo(k)Fluoranthene        | 400 U   | ---    | ---      | 1900 J   | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Benzo(a)Pyrene              | 400 U   | ---    | ---      | 2100     | ---        | ---      | ---      | ---      | ---      | 410    | ---    | ---      | ---         | ---    |
| Ideno(1,2,3-cd)Pyrene       | 400 U   | ---    | ---      | 1200 J   | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Benzo(g,h,i)Perylene        | 400 U   | ---    | ---      | 690 J    | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| <b>PESTICIDES (ppb)</b>     |         |        |          |          |            |          |          |          |          |        |        |          |             |        |
| beta-BHC                    | 0.14 JP | ---    | ---      | 1.4 JP   | ---        | ---      | ---      | ---      | 2.5 P    | ---    | ---    | ---      | ---         | ---    |
| delta-BHC                   | 2 U     | 19 P   | 62       | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Aldrin                      | 2 U     | ---    | ---      | 4.9      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| 4,4-DDE                     | 12      | 42 P   | ---      | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | 89     |
| Endrin                      | 3.9 U   | ---    | 19 P     | 24       | ---        | ---      | ---      | 11       | ---      | 9      | ---    | ---      | ---         | ---    |
| 4,4-DDT                     | 7.9     | 240    | 32 P     | ---      | ---        | ---      | ---      | ---      | ---      | 30     | ---    | ---      | ---         | 59     |
| Methoxychlor                | 20 U    | ---    | 36       | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| alpha-Chlordane             | 0.52 JP | 28 P   | ---      | ---      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | 140    |
| gamma-Chlordane             | 2 U     | ---    | 3.2 P    | 3.4      | ---        | 2.2 JP   | ---      | ---      | ---      | ---    | ---    | ---      | ---         | 39 P   |
| Toxaphene                   | 3.9 U   | ---    | ---      | ---      | ---        | 77 JP    | ---      | 61 JP    | 50 JP    | ---    | ---    | ---      | ---         | ---    |
| Arochlor-1260               | 24 JP   | ---    | ---      | ---      | ---        | 100      | ---      | 83       | ---      | ---    | ---    | ---      | ---         | ---    |
| <b>INORGANICS (ppm)</b>     |         |        |          |          |            |          |          |          |          |        |        |          |             |        |
| Antimony                    | 8.3 U   | 41.3   | 48.3     | 11.6 B   | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Arsenic                     | 7.8     | ---    | ---      | ---      | ---        | 26.9     | ---      | ---      | ---      | ---    | ---    | ---      | ---         | 67.5   |
| Barium                      | 93.8    | 11600  | 13900    | 222      | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Cadmium                     | 1.2 U   | 120    | 23.5     | 3.2      | ---        | 3.3      | 2        | 3.7      | 1.6      | 3.7    | 1.5    | ---      | ---         | ---    |
| Chromium                    | 15.1    | 542    | 901      | 79.3     | ---        | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Copper                      | 23.4    | 1620   | 13000    | 168      | ---        | 71.8     | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Lead                        | 97.6    | 2240   | 3650     | 1540     | ---        | 453      | 310      | ---      | ---      | 484    | ---    | ---      | ---         | ---    |
| Mercury                     | 0.08 B  | ---    | ---      | ---      | ---        | ---      | ---      | 0.62     | ---      | ---    | ---    | ---      | ---         | ---    |
| Nickel                      | 13.5    | ---    | ---      | 89.2     | 25.9       | ---      | ---      | ---      | ---      | ---    | ---    | ---      | ---         | ---    |
| Sodium                      | 73.9 U  | 188 B  | 435 B    | 730 B    | 235 B      | 220 B    | 147 B    | 141 B    | 111 B    | 188 B  | 127 B  | ---      | ---         | 88.8 B |
| Cyanide                     | 0.61 U  | 1.2    | 3.5      | 1.1      | ---        | ---      | ---      | 0.6      | ---      | ---    | ---    | ---      | ---         | ---    |
| Zinc                        | 147     | 6110   | 2590     | 1080     | ---        | 609      | ---      | ---      | ---      | 735    | ---    | ---      | ---         | ---    |

**Data Qualifiers**

U - indicates the compound was not detected

J - indicates an estimated value

B - indicates the analyte was detected in the associated blank as well as in the sample

E - indicates compounds whose concentrations exceed the calibration range of the instrument

P - indicates a pesticide target analyte when there is 25% difference of the directed concentrations between the two GC columns



**TABLE 4**  
**Lennon Wallpaper**  
**Expanded Site Inspection**  
**X-Ray Fluorescence Screening Data**

| XRF No. | Depth     | Date       | Pb<br>(lead) | As<br>(arsenic) | Zn<br>(zinc) | Cu<br>(copper) | Fe<br>(iron) | Mn<br>(manganese) | Cr<br>(chromium) |
|---------|-----------|------------|--------------|-----------------|--------------|----------------|--------------|-------------------|------------------|
| 6       | surface   | 04/12/2000 | 5500         | N.D.            | 4400         | 25492          | 13892        | N.D.              | N.D.             |
| 7       | 6 - 8 in. | 04/12/2000 | 3209.6       | N.D.            | 2969.6       | 19097.6        | 12800        | 1069.6            | 698.4            |
| 8       | 1 ft.     | 04/12/2000 | 2449.6       | N.D.            | 6529.6       | 16499.2        | 14892        | N.D.              | N.D.             |
| 9       | surface   | 04/12/2000 | 8224         | N.D.            | 3427.2       | 20889.6        | 13299.2      | N.D.              | 1729.6           |
| 11      | 6 in.     | 04/12/2000 | 5229.6       | N.D.            | 8029.6       | 8679.2         | 10192        | N.D.              | N.D.             |
| 12      | 1 ft.     | 04/12/2000 | 5049.6       | N.D.            | 4729.6       | 40192          | 4988.8       | N.D.              | 647.2            |
| 13      | surface   | 04/12/2000 | 5017.6       | N.D.            | 5017.6       | 20889.6        | 13299.2      | N.D.              | N.D.             |
| 14      | 6 in.     | 04/12/2000 | 7916.8       | N.D.            | 5388.8       | 51276.8        | 14489.6      | N.D.              | 4307.2           |
| 15      | surface   | 04/12/2000 | 7538.8       | N.D.            | 2889.6       | 20889.6        | 13299.2      | N.D.              | N.D.             |
| 17      | surface   | 04/12/2000 | 9075.2       | N.D.            | 4348.8       | 24793.6        | 14297.6      | N.D.              | 2409.6           |
| 18      | 6 in.     | 04/12/2000 | 6585.6       | N.D.            | 1739.2       | 20492.8        | 12998.4      | N.D.              | 1040             |
| 19      | 1 ft.     | 04/12/2000 | 6585.6       | N.D.            | 1739.2       | 20492.8        | 12998.4      | N.D.              | 1040             |
| 20      | surface   | 04/12/2000 | 16089.6      | N.D.            | 2080         | 14592          | 18099.2      | N.D.              | 2609.6           |
| 22      | 6 in.     | 04/12/2000 | 16089.6      | N.D.            | 2080         | 14592          | 18099.2      | N.D.              | 2609.6           |
| 23      | surface   | 04/12/2000 | 5539.2       | N.D.            | 2800         | 13196.8        | 11398.4      | N.D.              | 1160             |
| 24      | 1 ft.     | 04/12/2000 | 5539.2       | N.D.            | 2800         | 13196.8        | 11398.4      | N.D.              | 1160             |
| 27      | 1 ft.     | 04/12/2000 | 9747.2       | N.D.            | 1560         | 7878.4         | 9068.8       | N.D.              | 901.6            |
| 29      | 6 in.     | 04/12/2000 | 29875.2      | N.D.            | 3068.8       | 17088          | 20390.4      | N.D.              | 3408             |
| 31      | surface   | 04/12/2000 | 7219.2       | N.D.            | 6278.4       | 37094.4        | 16896        | N.D.              | 2499.2           |
| 33      | 1 ft.     | 04/12/2000 | 3718.4       | N.D.            | 2579.2       | 7398.4         | 10694.4      | N.D.              | N.D.             |
| 34      | surface   | 04/12/2000 | 12396.8      | N.D.            | 4067.2       | 24294.4        | 18099.2      | N.D.              | 2988.8           |
| 35      | 6 in.     | 04/12/2000 | 12396.8      | N.D.            | 4067.2       | 24294.4        | 18099.2      | N.D.              | 2988.8           |
| 37      | surface   | 04/12/2000 | 3987.2       | N.D.            | 3507.2       | 19392          | 16793.6      | N.D.              | 3289.6           |
| 38      | 6 in.     | 04/12/2000 | 4819.2       | N.D.            | 2659.2       | 13299.2        | 10694.4      | N.D.              | 896.8            |
| 39      | 1 ft.     | 04/12/2000 | 4819.2       | N.D.            | 2659.2       | 13299.2        | 10694.4      | N.D.              | 896.8            |
| 40      | 2 in.     | 04/12/2000 | 62.7         | N.D.            | N.D.         | N.D.           | 6467.2       | N.D.              | N.D.             |
| 41      | 2 in.     | 04/12/2000 | 62.7         | N.D.            | N.D.         | N.D.           | 6467.2       | N.D.              | N.D.             |
| 42      | 2 in.     | 04/12/2000 | 44.4         | N.D.            | 131.4        | 350.4          | 13798.4      | N.D.              | N.D.             |
| 43      | 2 in.     | 04/12/2000 | 44.4         | N.D.            | 131.4        | 350.4          | 13798.4      | N.D.              | N.D.             |
| 45      | 2 in.     | 04/12/2000 | 120.7        | N.D.            | 472.4        | 962.4          | 17600        | N.D.              | N.D.             |
| 47      | surface   | 04/12/2000 | 142.5        | 69.5            | 648          | 277            | 42291.2      | N.D.              | N.D.             |
| 48      | surface   | 04/12/2000 | 142.5        | 69.5            | 648          | 277            | 42291.2      | N.D.              | N.D.             |
| 50      | 1 ft.     | 04/12/2000 | 136.4        | 46.7            | 245          | 486            | 40192        | N.D.              | N.D.             |
| 52      | 6 in.     | 04/12/2000 | 1389.6       | N.D.            | 8064         | 5920           | 6816         | N.D.              | 1240             |
| 54      | 1 ft.     | 04/12/2000 | 1828.8       | N.D.            | 11699.2      | N.D.           | 10796.8      | N.D.              | 3699.2           |
| 56      | 6 in.     | 04/12/2000 | 2329.6       | N.D.            | 5718.4       | N.D.           | 7257.6       | N.D.              | 1320             |
| 58      | 6 in.     | 04/12/2000 | 4838.4       | N.D.            | 5228.8       | 1360           | 13888        | N.D.              | 1189.6           |
| 61      | surface   | 04/12/2000 | 26.5         | N.D.            | N.D.         | N.D.           | 3068.8       | N.D.              | N.D.             |
| 63      | surface   | 04/12/2000 | 34.4         | N.D.            | 113.8        | N.D.           | 3360         | N.D.              | 478              |
| 65      | surface   | 04/12/2000 | N.D.         | N.D.            | 73.3         | N.D.           | 3200         | N.D.              | N.D.             |
| 67      | surface   | 04/12/2000 | N.D.         | N.D.            | 86.7         | N.D.           | 3868.8       | N.D.              | N.D.             |
| 68      | surface   | 04/12/2000 | N.D.         | N.D.            | N.D.         | N.D.           | 4278.4       | N.D.              | 556              |
| 69      | surface   | 04/12/2000 | 36.6         | N.D.            | 66.9         | N.D.           | 4147.2       | N.D.              | N.D.             |
| 70      | surface   | 04/12/2000 | 110.3        | N.D.            | 243.6        | N.D.           | 13388.8      | N.D.              | 1400             |
| 71      | surface   | 04/12/2000 | 110.3        | N.D.            | 243.6        | N.D.           | 13388.8      | N.D.              | 1400             |
| 72      | surface   | 04/12/2000 | 110.3        | N.D.            | 243.6        | N.D.           | 13388.8      | N.D.              | 1400             |

\* all concentrations are in parts per million (ppm)

**APPENDIX A**  
**4-MILE RADIUS MAP**

**Figure 1**  
**Site Location Map**

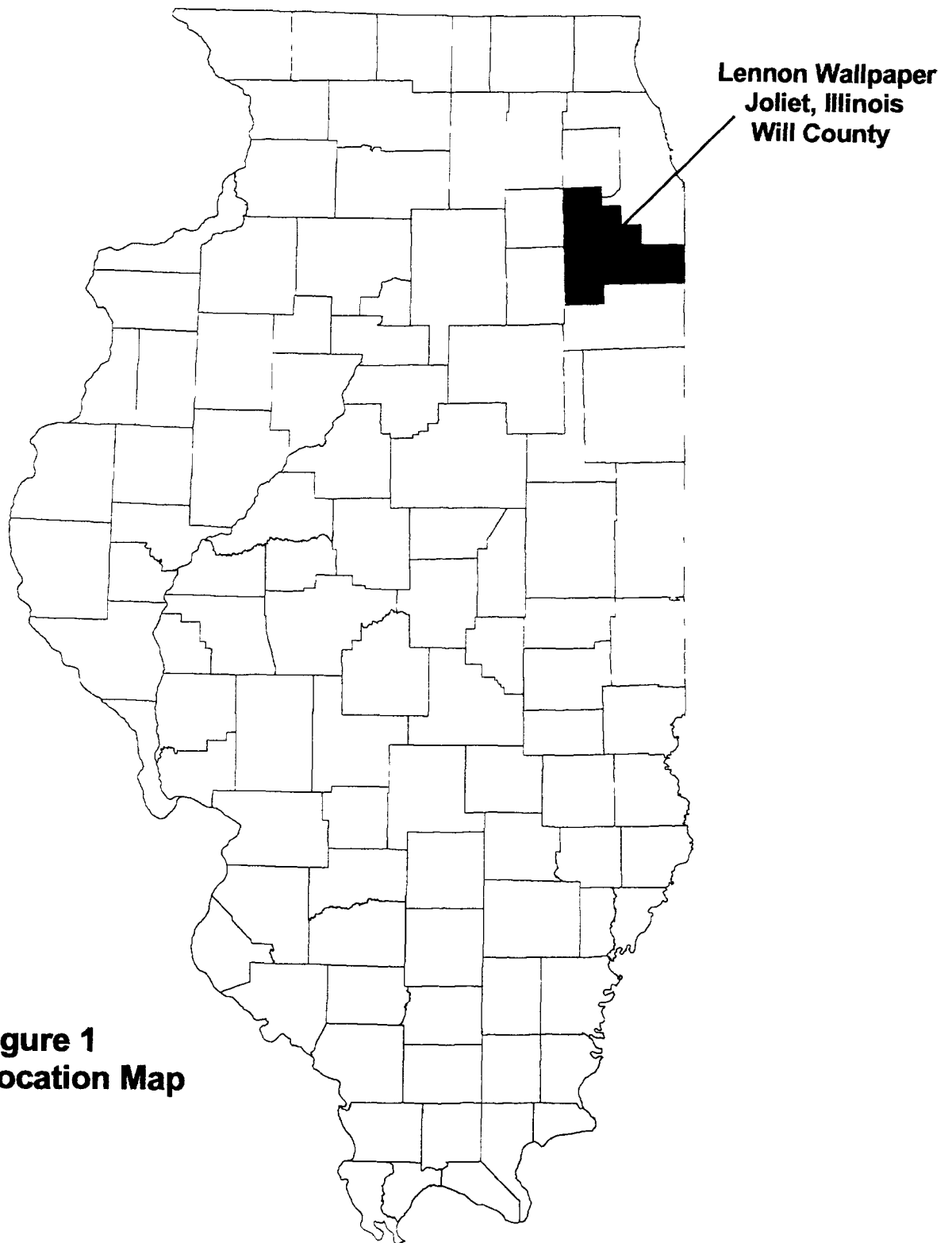
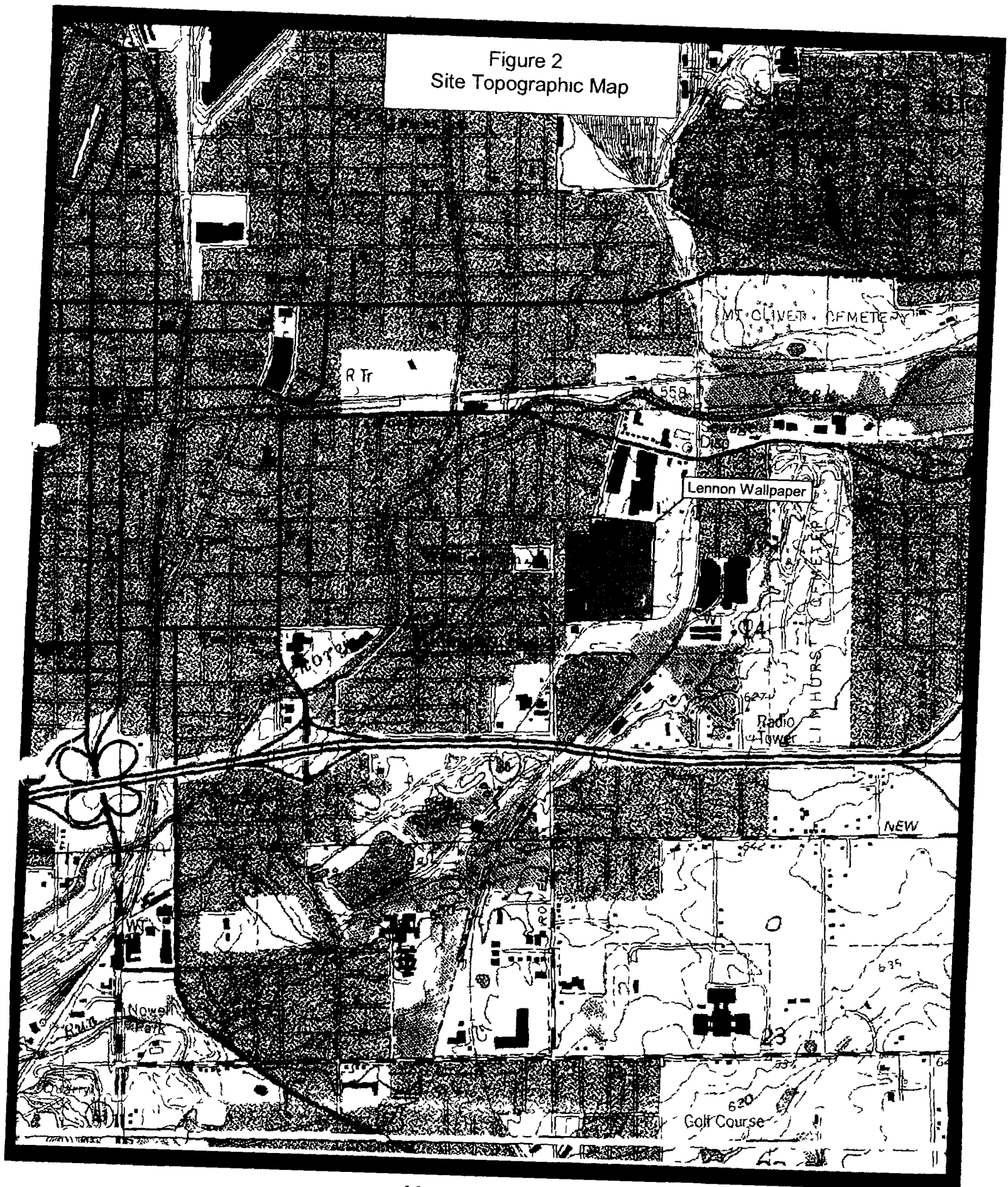


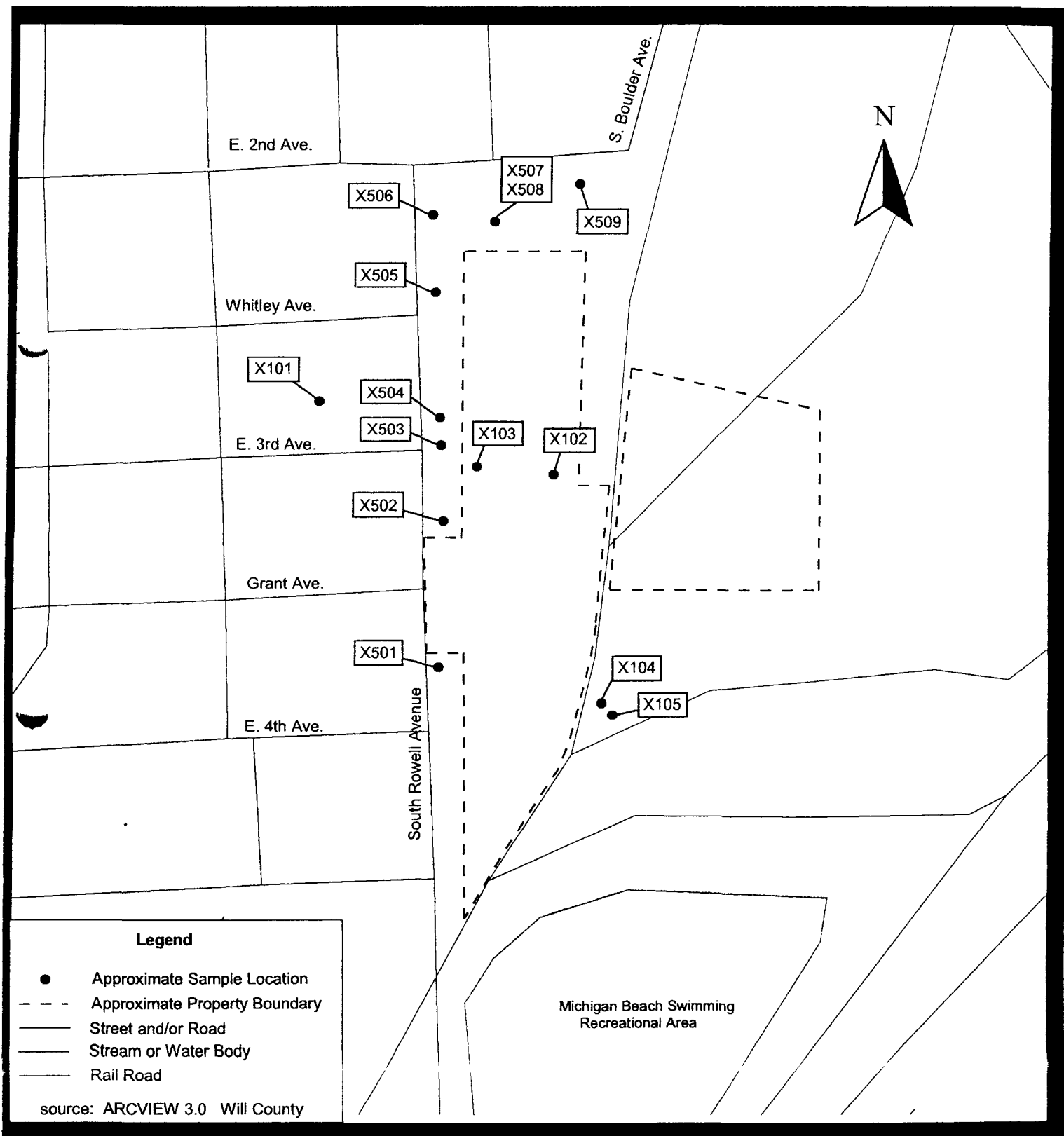
Figure 2  
Site Topographic Map



Map Scale

1000 0 1000 2000 3000 Feet

Figure 3  
Sample Location Map  
Lennon Wallpaper  
ILD #984779759



Map Scale

300 0 300 600 Feet

Figure 4  
X-Ray Fluorescence Location Map

XRF Screening  
Locations 6 - 39

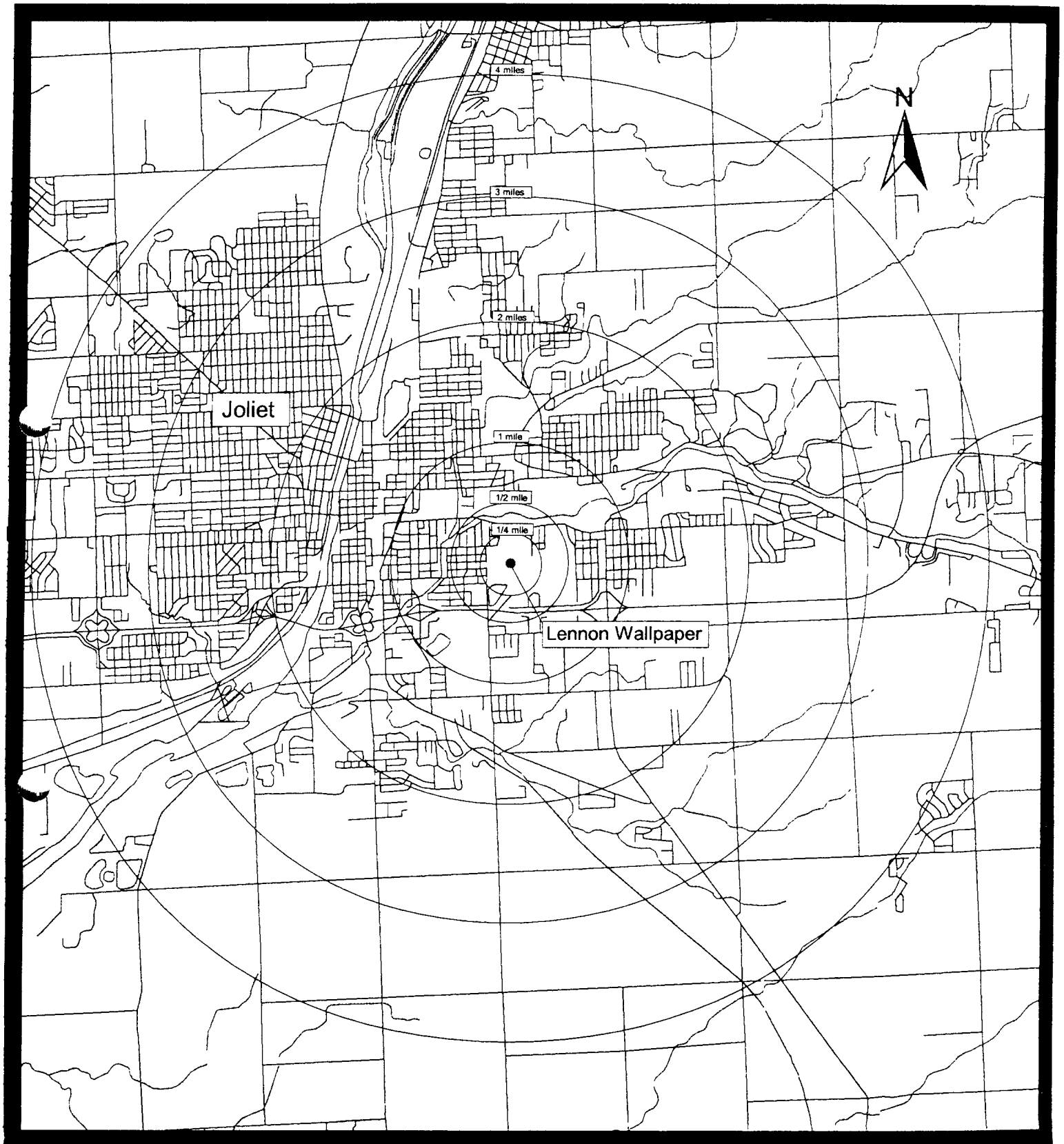
XRF Screening  
Locations 49 - 59

Lennon

XRF Screening  
Locations 61 - 72

approximate map scale: 1" = 140'

# 4-Mile Radius Map



Map Scale

3

0

3 Miles

Figure 5  
Area of Contaminated Soil  
Lennon Wallpaper

United DeSoto

X103

X109

X112

X103 (ESI)

X113

X104 (ESI)

X105 (ESI)

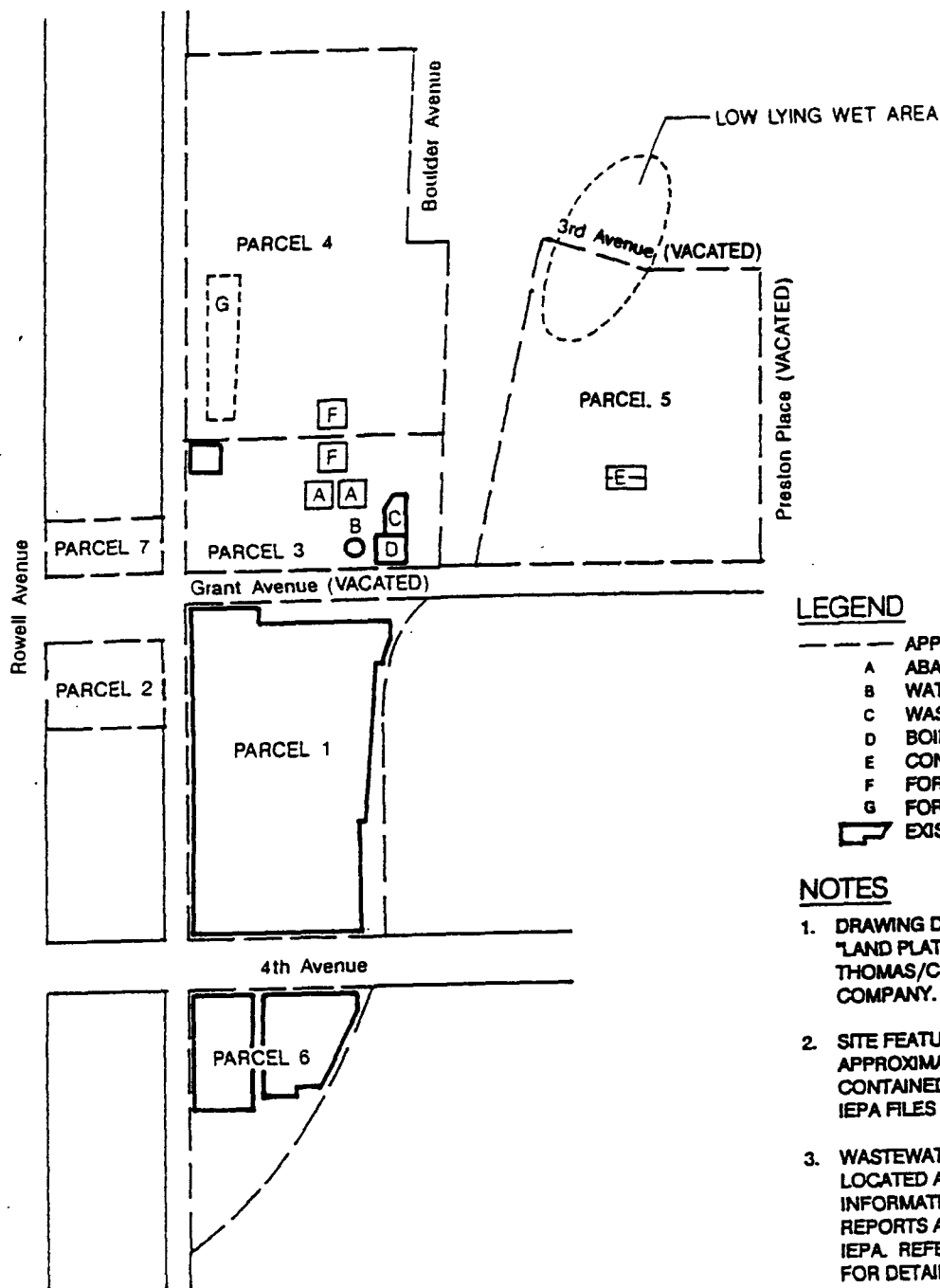
 Area of Contaminated Soil

Approximate Map Scale: 1" = 245'



**APPENDIX B**  
**LENNON WALLPAPER FACILITY MAP**

# Lennon Wallpaper Facility Map



## LEGEND

- APPROXIMATE PARCEL LINE
- A ABANDONED STORAGE PITS
- B WATER TANK
- C WASTEWATER TREATMENT
- D BOILER HOUSE
- E CONCRETE SLUDGE SETTLING BASINS
- F FORMER SETTLING PONDS
- G FORMER TRENCH/DRAINAGE DITCH
- [Symbol] EXISTING BUILDINGS

## NOTES

1. DRAWING DEVELOPED FROM MODIFIED "LAND PLAT" DRAWING BY LLOYD-THOMAS/COATS & BURCHARD COMPANY.
2. SITE FEATURES HAVE BEEN LOCATED APPROXIMATELY BASED ON INFORMATION CONTAINED IN PREVIOUS SITE REPORTS, IEPA FILES AND AERIAL PHOTOGRAPHS
3. WASTEWATER TREATMENT FACILITIES LOCATED APPROXIMATELY BASED ON INFORMATION CONTAINED ON PREVIOUS REPORTS AND INFORMATION PROVIDED BY IEPA. REFER TO SECTION 2 OF REPORT FOR DETAILS.
4. PARCELS 1, 2 AND 6 ARE OWNED BY MR. DOUG SILVERMAN. PARCELS 3, 4, 5 AND 7 ARE OWNED BY LENNON WALL PAPER COMPANY AND CURRENTLY LEASED BY MR. SILVERMAN.



source: 1990 Workplan for Lennon Wallpaper  
Prepared by Warzyn Engineering Inc.

**APPENDIX C**  
**TARGET COMPOUND LIST**

## **TARGET COMPOUND LIST**

### **Volatile Target Compounds**

|                            |                           |
|----------------------------|---------------------------|
| Chloromethane              | 1,2-Dichloropropane       |
| Bromomethane               | cis-1,3-Dichloropropene   |
| Vinyl Chloride             | Trichloroethene           |
| Chloroethane               | Dibromochloromethane      |
| Methylene Chloride         | 1,1,2-Trichloroethane     |
| Acetone                    | Benzene                   |
| Carbon Disulfide           | trans-1,3-Dichloropropene |
| 1,1-Dichloroethene         | Bromoform                 |
| 1,1-Dichloroethane         | 4-Methyl-2-pentanone      |
| 1,2-Dichloroethene (total) | 2-Hexanone                |
| Chloroform                 | Tetrachloroethene         |
| 1,2-Dichloroethane         | 1,1,2,2-Tetrachloroethane |
| 2-Butanone                 | Toluene                   |
| 1,1,1-Trichloroethane      | Chlorobenzene             |
| Carbon Tetrachloride       | Ethylbenzene              |
| Vinyl Acetate              | Styrene                   |
| Bromodichloromethane       | Xylenes (total)           |

### **Base/Neutral Target Compounds**

|                               |                           |
|-------------------------------|---------------------------|
| Hexachloroethane              | 2,4-Dinitrotoluene        |
| bis(2-Chloroethyl) Ether      | Diethylphthalate          |
| Benzyl Alcohol                | N-Nitrosodiphenylamine    |
| bis (2-Chloroisopropyl) Ether | Hexachlorobenzene         |
| N-Nitroso-Di-n-Propylamine    | Phenanthrene              |
| Nitrobenzene                  | 4-Bromophenyl-phenylether |
| Hexachlorobutadiene           | Anthracene                |
| 2-Methylnaphthalene           | Di-n-Butylphthalate       |
| 1,2,4-Trichlorobenzene        | Fluoranthene              |

|                            |                            |
|----------------------------|----------------------------|
| Isophorone                 | Pyrene                     |
| Naphthalene                | Butylbenzylphthalate       |
| 4-Chloroaniline            | bis(2-Ethylhexyl)Phthalate |
| bis(2-chloroethoxy)Methane | Chrysene                   |
| Hexachlorocyclopentadiene  | Benzo(a)Anthracene         |
| 2-Chloronaphthalene        | 3-3'-Dichlorobenzidene     |
| 2-Nitroaniline             | Di-n-Octyl Phthalate       |
| Acenaphthylene             | Benzo(b)Fluoranthene       |
| 3-Nitroaniline             | Benzo(k)Fluoranthene       |
| Acenaphthene               | Benzo(a)Pyrene             |
| Dibenzofuran               | Ideno(1,2,3-cd)Pyrene      |
| Dimethyl Phthalate         | Dibenz(a,h)Anthracene      |
| 2,6-Dinitrotoluene         | Benzo(g,h,i)Perylene       |
| Fluorene                   | 1,2-Dichlorobenzene        |
| 4-Nitroaniline             | 1,3-Dichlorobenzene        |
| 4-Chlorophenyl-phenylether | 1,4-Dichlorobenzene        |

#### Acid Target Compounds

|                    |                            |
|--------------------|----------------------------|
| Benzoic Acid       | 2,4,6-Trichlorophenol      |
| Phenol             | 2,4,5-Trichlorophenol      |
| 2-Chlorophenol     | 4-Chloro-3-methylphenol    |
| 2-Nitrophenol      | 2,4-Dinitrophenol          |
| 2-Methylphenol     | 2-Methyl-4,6-dinitrophenol |
| 2,4-Dimethylphenol | Pentachlorophenol          |
| 4-Methylphenol     | 4-Nitrophenol              |
| 2,4-Dichlorophenol |                            |

### Pesticide/PCB Target Compounds

|                     |                    |
|---------------------|--------------------|
| alpha-BHC           | Endrin Ketone      |
| beta-BHC            | Endosulfan Sulfate |
| delta-BHC           | Methoxychlor       |
| gamma-BHC (Lindane) | alpha-Chlordane    |
| Heptachlor          | gamma-Chlordane    |
| Aldrin              | Toxaphene          |
| Heptachlor epoxide  | Aroclor-1016       |
| Endosulfan I        | Aroclor-1221       |
| 4,4'-DDE            | Aroclor-1232       |
| Dieldrin            | Aroclor-1242       |
| Endrin              | Aroclor-1248       |
| 4,4'-DDD            | Aroclor-1254       |
| Endosulfan II       | Aroclor-1260       |
| 4,4'-DDT            |                    |

### Inorganic Target Compounds

|           |           |
|-----------|-----------|
| Aluminum  | Manganese |
| Antimony  | Mercury   |
| Arsenic   | Nickel    |
| Barium    | Potassium |
| Beryllium | Selenium  |
| Cadmium   | Silver    |
| Calcium   | Sodium    |
| Chromium  | Thallium  |
| Cobalt    | Vanadium  |
| Copper    | Zinc      |
| Iron      | Cyanide   |
| Lead      | Sulfide   |
| Magnesium |           |

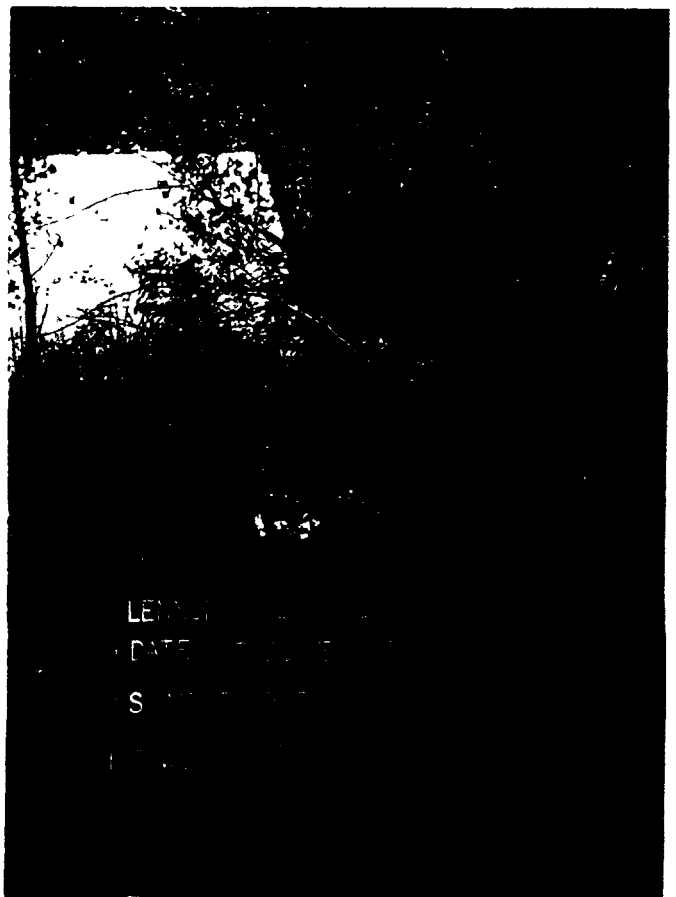
**APPENDIX D**  
**ILLINOIS EPA SAMPLE PHOTOGRAPHS**

|                             |              |
|-----------------------------|--------------|
| SITE NAME: Lennon Wallpaper |              |
| CERCLIS ID: ILD 984 779 759 | COUNTY: Will |

|   |
|---|
| DATE: June 7, 1995                      |
| TIME: 10:10 a.m.                        |
| PHOTO BY: Kim Hubbert                   |
| PHOTO NUMBER: 3                         |
| ROLL NUMBER: 1                          |
| DIRECTION: Southwest                    |
| COMMENTS: Photo taken<br>of sample X102 |



|   |
|---|
| DATE: June 7, 1995                      |
| TIME: 10:10 a.m.                        |
| PHOTO BY: Kim Hubbert                   |
| PHOTO NUMBER: 4                         |
| ROLL NUMBER: 1                          |
| DIRECTION: West                         |
| COMMENTS: Photo taken<br>of sample X102 |





**SITE NAME:** Lennon Wallpaper

**CERCLIS ID:** ILD 984 779 759

**COUNTY:** Will

**DATE:** June 7, 1995

**TIME:** 10:45 a.m.

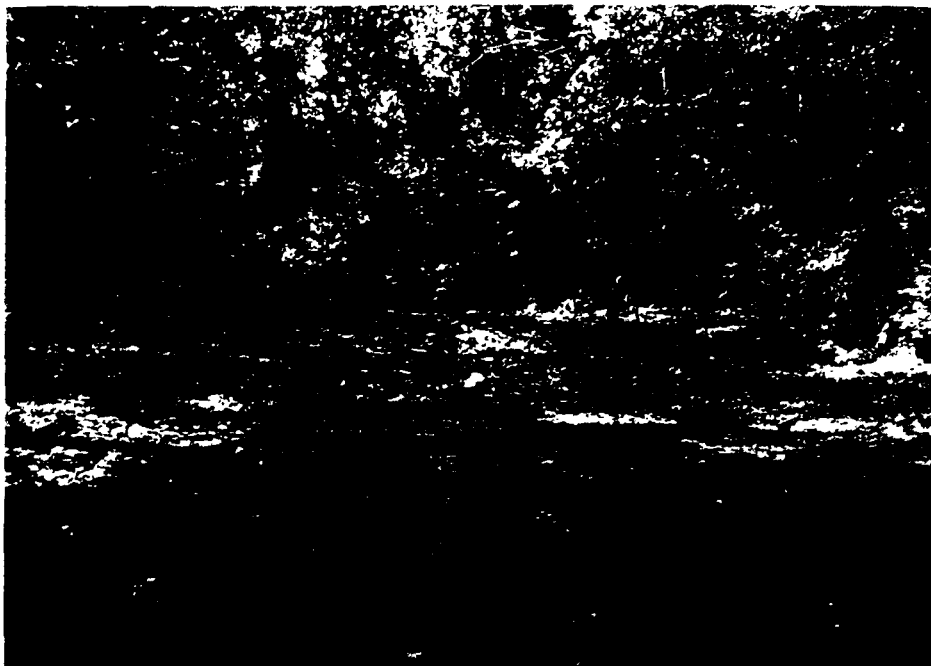
**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 5

**ROLL NUMBER:** 1

**DIRECTION:** East

**COMMENTS:** Photo taken  
of sample X103



**DATE:** June 7, 1995

**TIME:** 10:45 a.m.

**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 6

**ROLL NUMBER:** 1

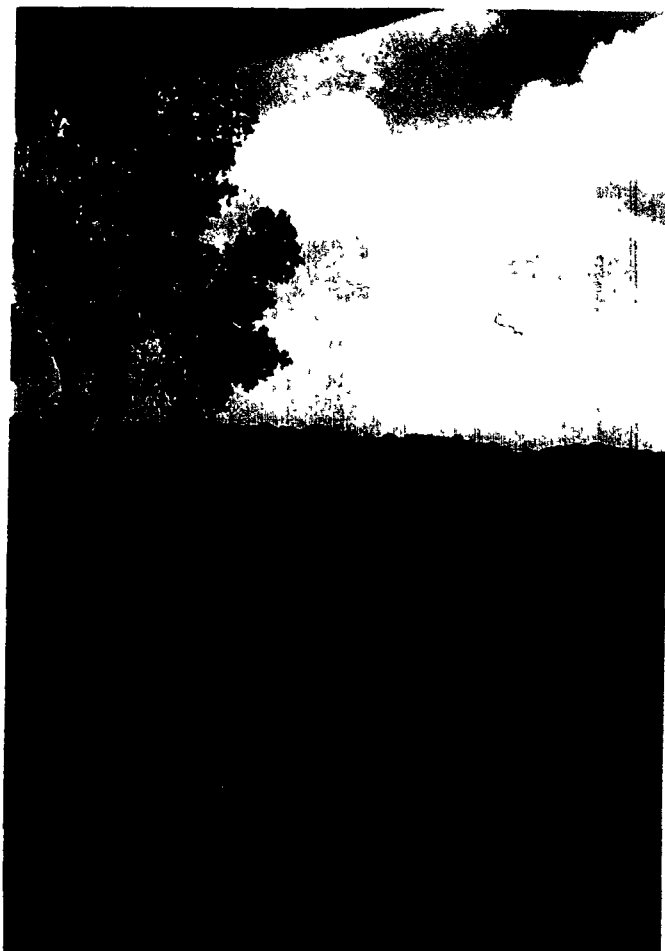
**DIRECTION:** South

**COMMENTS:** Photo taken  
of sample X103

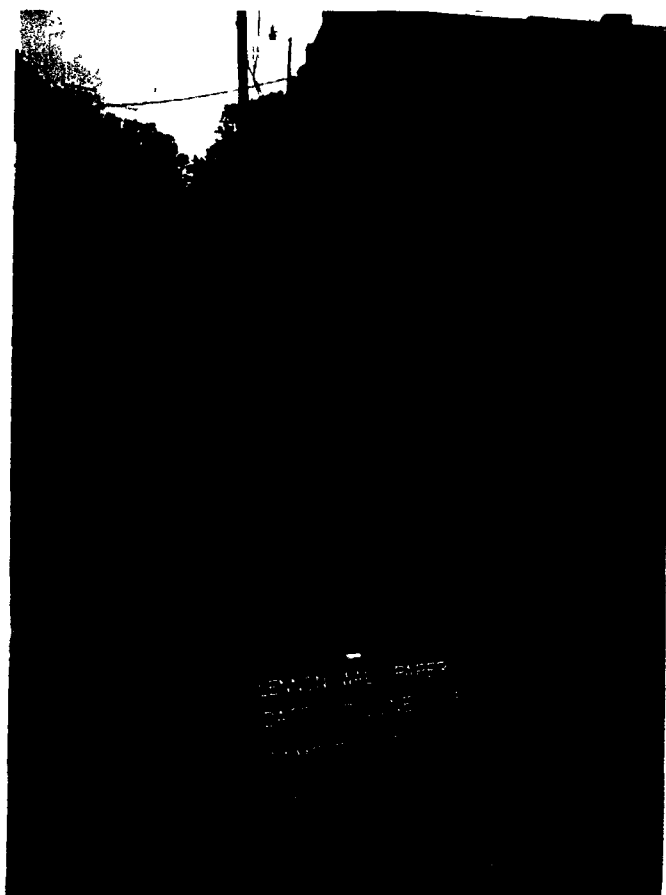


|                             |              |
|-----------------------------|--------------|
| SITE NAME: Lennon Wallpaper |              |
| CERCLIS ID: ILD 984 779 759 | COUNTY: Will |

|   |
|---|
| DATE: June 7, 1995                      |
| TIME: 2:1 p.m.                          |
| PHOTO BY: Kim Hubbert                   |
| PHOTO NUMBER: 7                         |
| ROLL NUMBER: 1                          |
| DIRECTION: S-southeast                  |
| COMMENTS: Photo taken<br>of sample X104 |



|   |
|---|
| DATE: June 7, 1995                      |
| TIME: 2:10 p.m.                         |
| PHOTO BY: Kim Hubbert                   |
| PHOTO NUMBER: 8                         |
| ROLL NUMBER: 1                          |
| DIRECTION: West                         |
| COMMENTS: Photo taken<br>of sample X104 |



**SITE NAME:** Lennon Wallpaper

**CERCLIS ID:** ILD 984 779 759

**COUNTY:** Will

**DATE:** June 7, 1995

**TIME:** 2:50 p.m.

**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 10

**ROLL NUMBER:** 1

**DIRECTION:** West

**COMMENTS:** Photo taken  
of sample X105



**DATE:** June 7, 1995

**TIME:** 2:50 p.m.

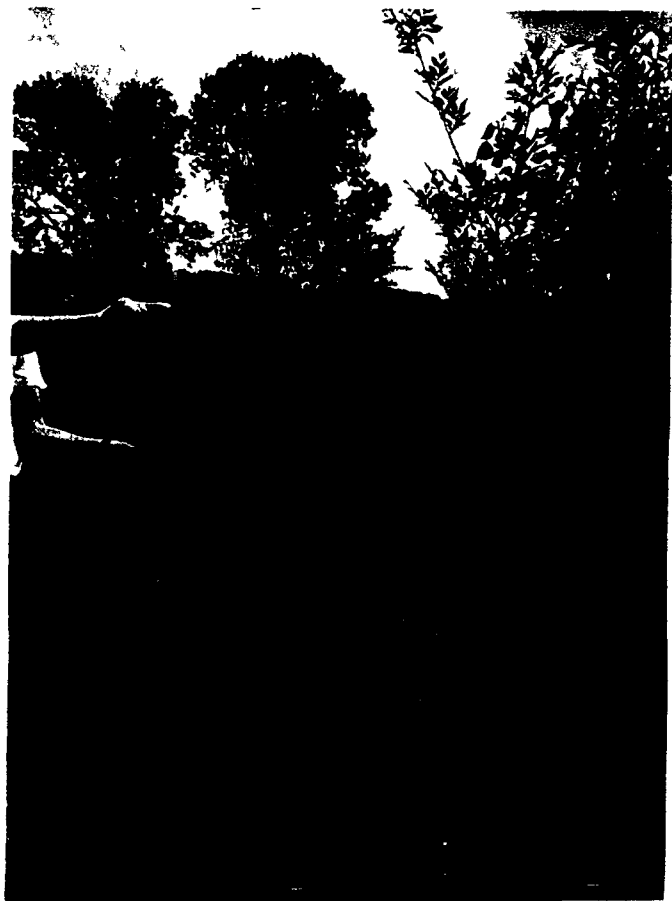
**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 11

**ROLL NUMBER:** 1

**DIRECTION:** South

**COMMENTS:** Photo taken  
of sample X105



|                             |              |
|-----------------------------|--------------|
| SITE NAME: Lennon Wallpaper |              |
| CERCLIS ID: ILD 984 779 759 | COUNTY: Will |

|   |
|---|
| DATE: June 7, 1995  |
| TIME: 3:45 p.m.   |
| PHOTO BY: Kim Hubbert   |
| PHOTO NUMBER: 12  |
| ROLL NUMBER: 2  |
| DIRECTION: West   |
| COMMENTS: Photo taken<br>of sample X501 located<br>at 354 Rowell Avenue |



|   |
|---|
| DATE: June 7, 1995  |
| TIME: 3:45 p.m.   |
| PHOTO BY: Kim Hubbert   |
| PHOTO NUMBER: 13  |
| ROLL NUMBER: 2  |
| DIRECTION: East   |
| COMMENTS: Photo taken<br>of sample X501 located<br>at 354 Rowell Avenue |



SITE NAME: Lennon Wallpaper

CERCLIS ID: ILD 984 779 759

COUNTY: Will

DATE: June 7, 1995

TIME: 4:00 p.m.

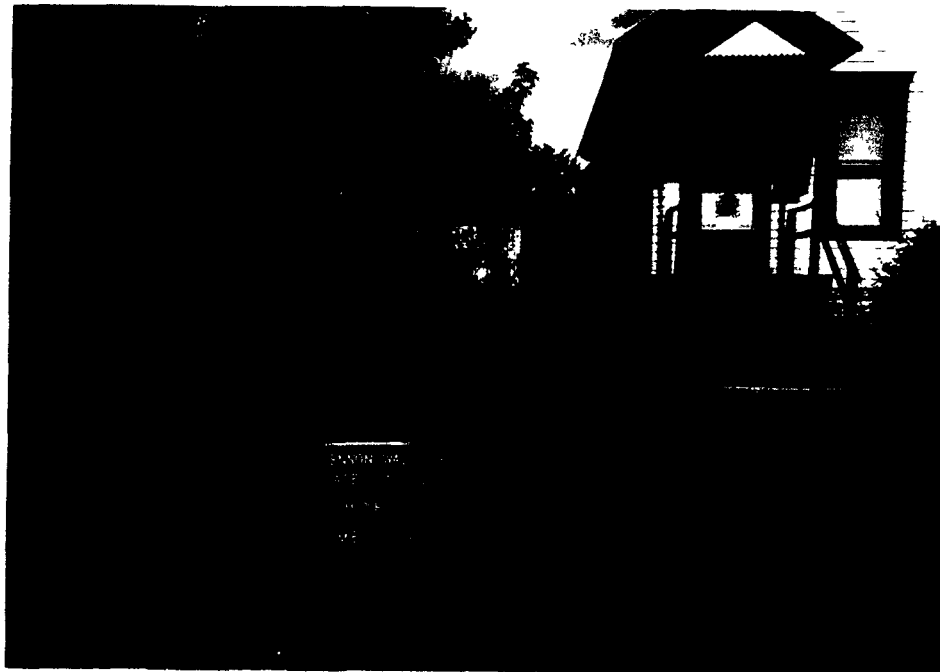
PHOTO BY: Kim Hubbert

PHOTO NUMBER: 14

ROLL NUMBER: 2

DIRECTION: East

COMMENTS: Photo taken  
of sample X502 located  
at 304 Rowell Avenue



DATE: June 7, 1995

TIME: 4:00 p.m.

PHOTO BY: Kim Hubbert

PHOTO NUMBER: 15

ROLL NUMBER: 2

DIRECTION: South

COMMENTS: Photo taken  
of sample X502 located  
at 304 Rowell Avenue



**SITE NAME:** Lennon Wallpaper

**CERCLIS ID:** ILD 984 779 759

**COUNTY:** Will

**DATE:** June 7, 1995

**TIME:** 4:30 p.m.

**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 16

**ROLL NUMBER:** 2

**DIRECTION:** East

**COMMENTS:** Photo taken  
of sample X503 located  
at 234 Rowell Avenue



**DATE:** June 7, 1995

**TIME:** 4:30 p.m.

**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 17

**ROLL NUMBER:** 2

**DIRECTION:** West

**COMMENTS:** Photo taken  
of sample X503 located  
at 234 Rowell Avenue



SITE NAME: Lennon Wallpaper

CERCLIS ID: ILD 984 779 759

COUNTY: Will

DATE: June 7, 1995

TIME: 5:05 p.m.

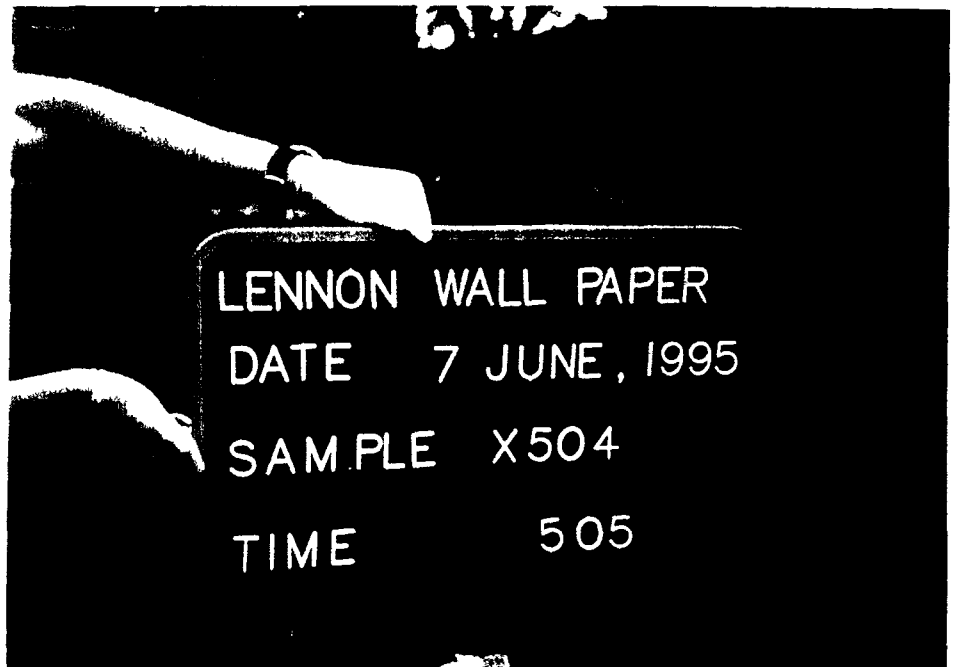
PHOTO BY: Kim Hubbert

PHOTO NUMBER: 18

ROLL NUMBER: 2

DIRECTION: West

COMMENTS: Photo taken  
of sample X504 located  
at 226 Rowell Avenue



DATE: June 7, 1995

TIME: 5:05 p.m.

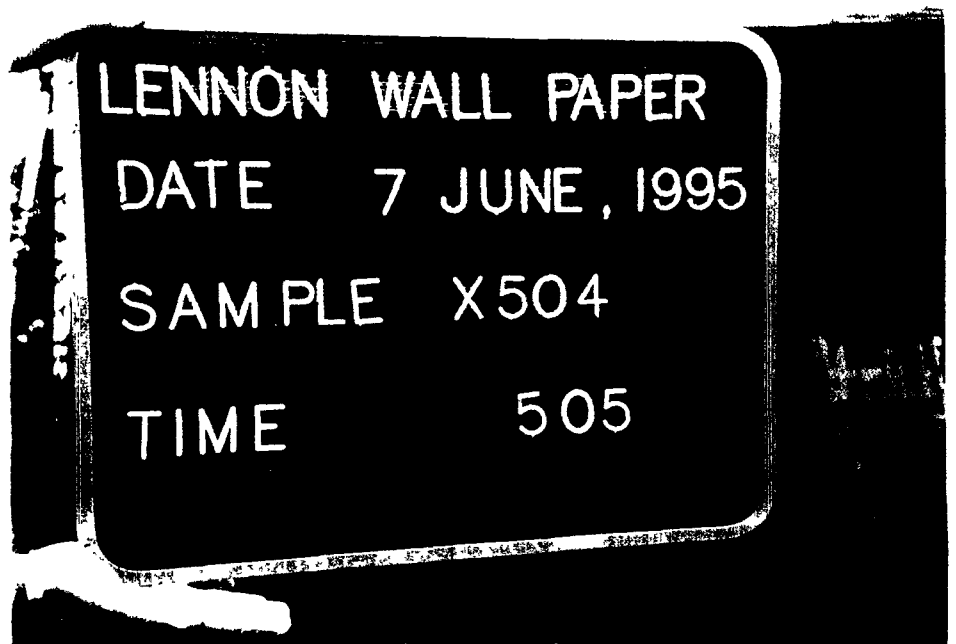
PHOTO BY: Kim Hubbert

PHOTO NUMBER: 19

ROLL NUMBER: 2

DIRECTION: South

COMMENTS: Photo taken  
of sample X504 located  
at 226 Rowell Avenue

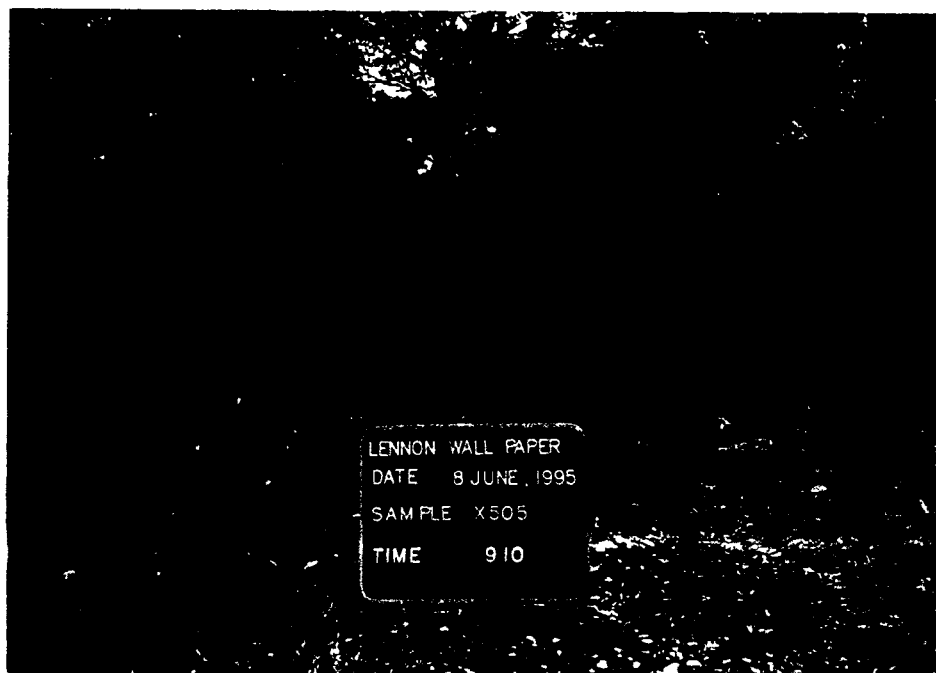


|                             |              |
|-----------------------------|--------------|
| SITE NAME: Lennon Wallpaper |              |
| CERCLIS ID: ILD 984 779 759 | COUNTY: Will |

|   |
|---|
| DATE: June 8, 1995  |
| TIME: 9:10 a.m.   |
| PHOTO BY: Kim Hubbert   |
| PHOTO NUMBER: 20  |
| ROLL NUMBER: 3  |
| DIRECTION: West   |
| COMMENTS: Photo taken of sample X505 located at 216 Rowell Avenue |



|   |
|---|
| DATE: June 8, 1995  |
| TIME: 9:10 a.m.   |
| PHOTO BY: Kim Hubbert   |
| PHOTO NUMBER: 21  |
| ROLL NUMBER: 3  |
| DIRECTION: East   |
| COMMENTS: Photo taken of sample X505 located at 216 Rowell Avenue |





**SITE NAME:** Lennon Wallpaper

**CERCLIS ID:** ILD 984 779 759

**COUNTY:** Will

**DATE:** June 8, 1995

**TIME:** 9:25 a.m.

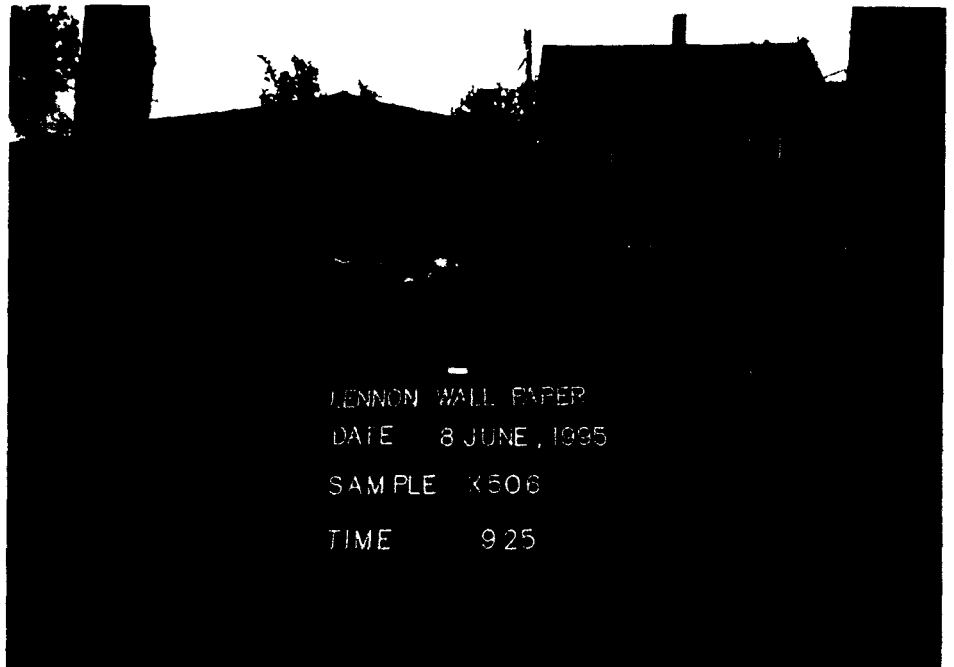
**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 22

**ROLL NUMBER:** 3

**DIRECTION:** East

**COMMENTS:** Photo taken  
of sample X506 located  
at 208 Rowell Avenue



**DATE:** June 8, 1995

**TIME:** 9:25 a.m.

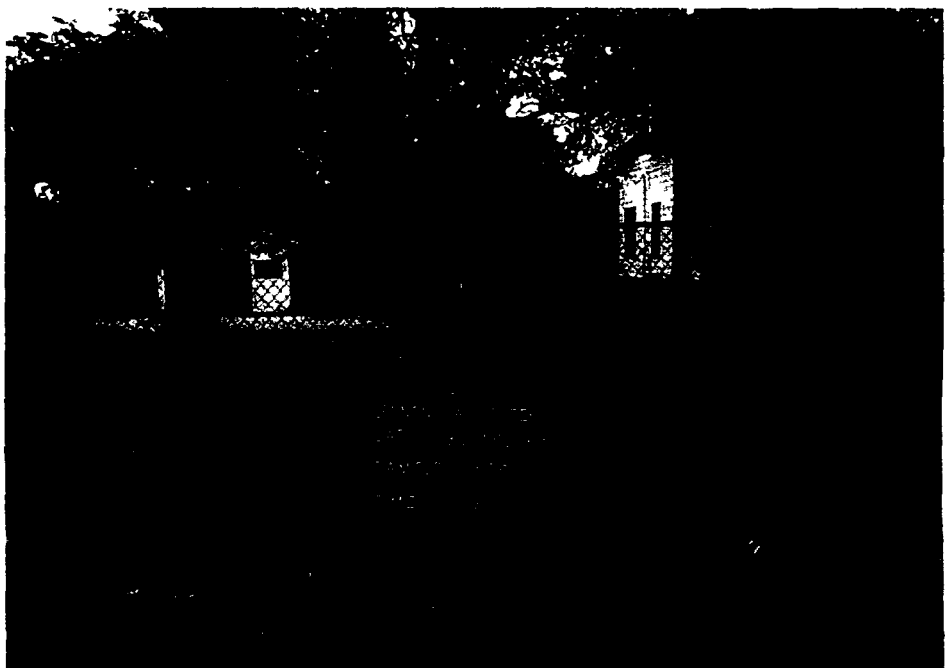
**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 23

**ROLL NUMBER:** 3

**DIRECTION:** West

**COMMENTS:** Photo taken  
of sample X506 located  
at 208 Rowell Avenue



**SITE NAME:** Lennon Wallpaper

**CERCLIS ID:** ILD 984 779 759

**COUNTY:** Will

**DATE:** June 8, 1995

**TIME:** 9:45 a.m.

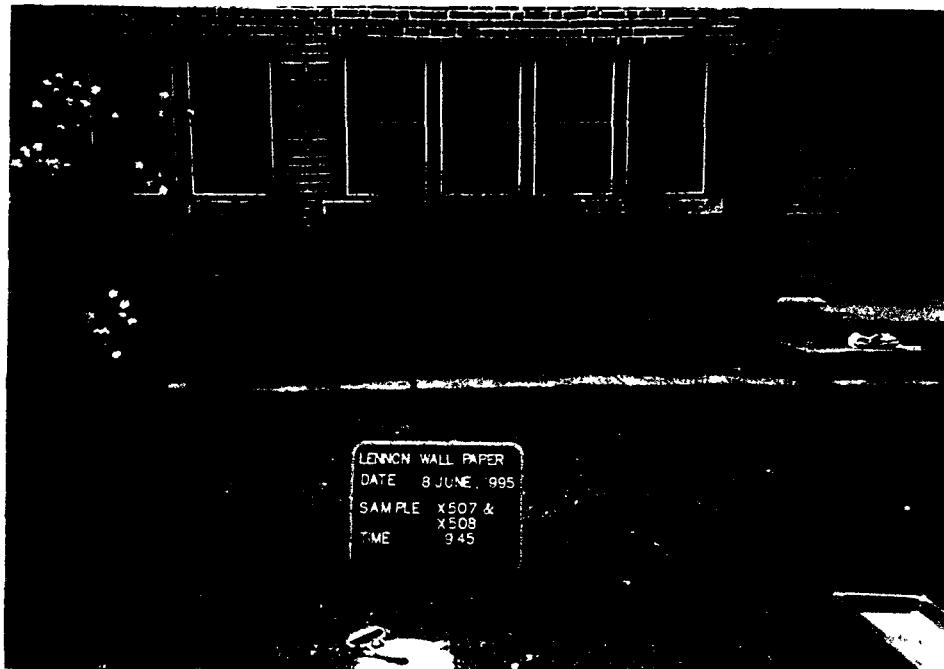
**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 24

**ROLL NUMBER:** 3

**DIRECTION:** South

**COMMENTS:** Photo taken of sample X507/X508 located at 806-816 Second Avenue (X508 is a duplicate sample of X507)



**DATE:** June 8, 1995

**TIME:** 9:45 a.m.

**PHOTO BY:** Kim Hubbert

**PHOTO NUMBER:** 25

**ROLL NUMBER:** 3

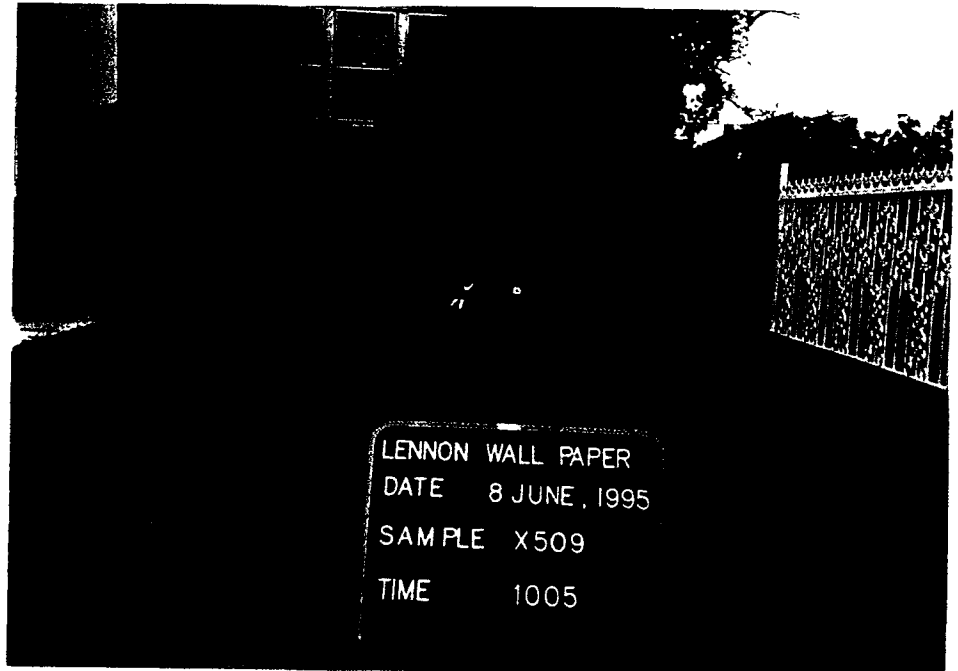
**DIRECTION:** North

**COMMENTS:** Photo taken of sample X507/X508 located at 806-816 Second Avenue (X508 is a duplicate sample of X507)

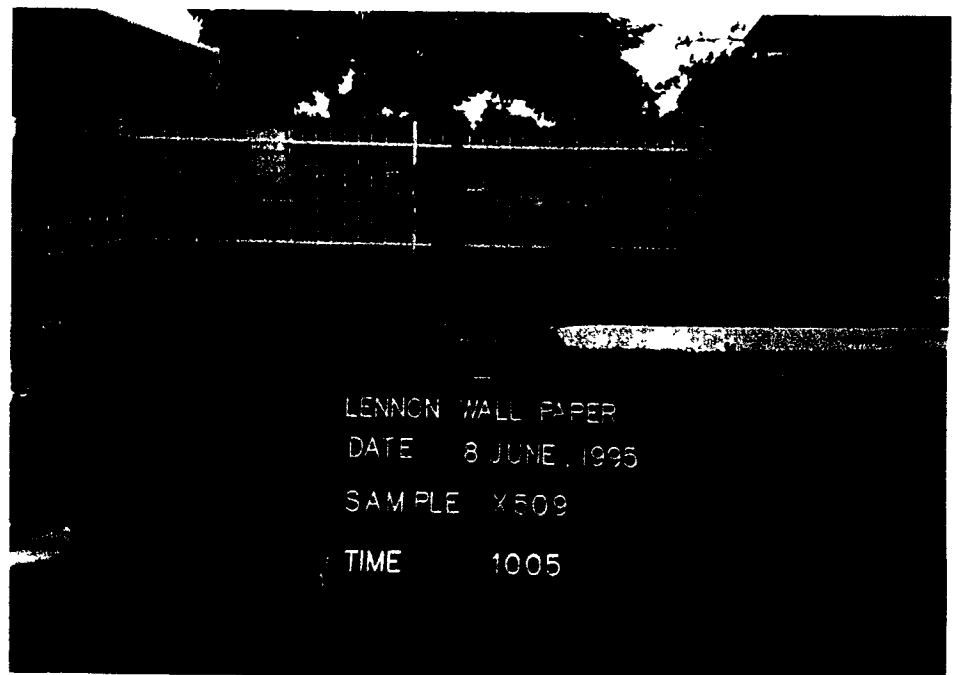


|                             |              |
|-----------------------------|--------------|
| SITE NAME: Lennon Wallpaper |              |
| CERCLIS ID: ILD 984 779 759 | COUNTY: Will |

|   |
|---|
| DATE: June 8, 1995  |
| TIME: 10:05 a.m.  |
| PHOTO BY: Kim Hubbert   |
| PHOTO NUMBER: 26  |
| ROLL NUMBER: 3  |
| DIRECTION: South  |
| COMMENTS: Photo taken of sample X509 located at 820 Second Street |



|  |
|--|
| DATE: June 8, 1995   |
| TIME: 10:05 a.m.   |
| PHOTO BY: Kim Hubbert  |
| PHOTO NUMBER: 27   |
| ROLL NUMBER: 3   |
| DIRECTION: West  |
| COMMENTS: Photo taken of sample X509 located 820 Second Street |



SITE NAME: Lennon Wallpaper

CERCLIS ID: ILD 984 779 759

COUNTY: Will

DATE: June 8, 1995

TIME: 10:30 a.m.

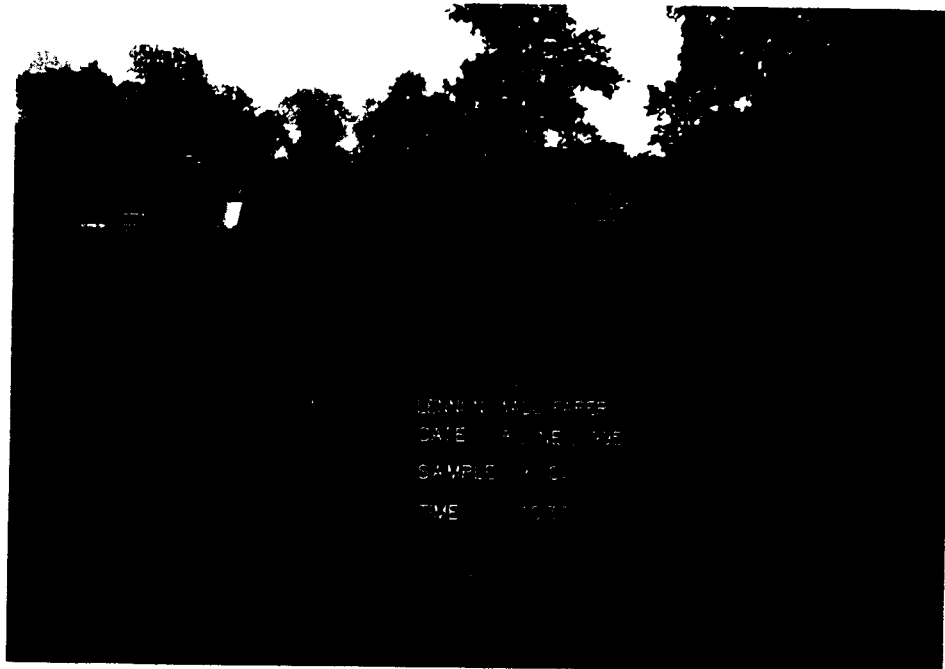
PHOTO BY: Kim Hubbert

PHOTO NUMBER: 28

ROLL NUMBER: 3

DIRECTION: East

COMMENTS: Photo taken  
of sample X101 located  
Woodland School



DATE: June 8, 1995

TIME: 10:30 a.m.

PHOTO BY: Kim Hubbert

PHOTO NUMBER: 29

ROLL NUMBER: 3

DIRECTION: N-northeast

COMMENTS: Photo taken  
of sample X101 located  
at Woodland School

